

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id L4865 Component

Fluid

Diesel Engine

### DIESEL ENGINE OIL SAE 15W40 (--- GAL)

| DIAGNOSIS      |
|----------------|
| Recommendation |

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

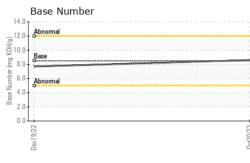
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

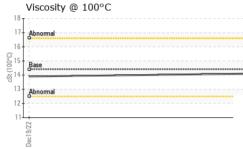
| Sample Date         Client Info         30 Oct 2023         19 Dec 2022            Machine Age         hrs         Client Info         6006         3801            Oil Age         hrs         Client Info         6006         0            Oil Changed         Client Info         Changed         Changed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | AE 15W40 ( G     | AL)      |             | Dec2022    | 0ct2023     |             |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|-------------|------------|-------------|-------------|----------|
| Sample Date         Client Info         S0 Oct 2023         19 Dec 2022            Machine Age         hrs         Client Info         6006         3801            Oil Age         hrs         Client Info         6006         0            Sample Status         Client Info         Changed         Changed            CONTAMINATION         method         Imit/base         current         NoRMAL            CONTAMINATION         method         Job<          NoRMAL            Glycol         WC Method         >3.0         <1.0             WARM ETALS         method         imit/base         current         history1         history2           Ifon         ppm         ASTM D5165m         >120         35         18            Nickel         ppm         ASTM D5165m         >20         <1             Nickel         ppm         ASTM D5165m         >20         <1             Nickel         ppm         ASTM D5165m         >20         <1             Silver         ppm                                                                    | SAMPLE INFORM    | NATION   | method      | limit/base | current     | history1    | history2 |
| Machine Age         hrs         Client Info         6006         3801            Oil Age         hrs         Client Info         6006         0            Oil Changed         Client Info         6006         0            Sample Status         Info         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         infi/base         current         history1         History2           Fuel         WC Method         >3.0         <1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample Number    |          | Client Info |            | WC0847978   | WC0759977   |          |
| Oil Age         hrs         Client Info         6006         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sample Date      |          | Client Info |            | 30 Oct 2023 | 19 Dec 2022 |          |
| Dil Changed<br>Sample Status     Client Info     Changed<br>NORMAL     Changed<br>NORMAL        CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >3.0     <1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Machine Age      | hrs      | Client Info |            | 6006        | 3801        |          |
| Sample Status         Image: Normal status         Normal matrix         Normal matrix           CONTAMINATION         method         imit/base         current         history1         history2           Fuel         WC Method         >3.0         <1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Oil Age          | hrs      | Client Info |            | 6006        | 0           |          |
| CONTAMINATION         method         imit/base         current         history1         history2           Fuel         WC Method         >3.0         <1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Oil Changed      |          | Client Info |            | Changed     | Changed     |          |
| Fuel         WC Method         >3.0         <1.0         <1.0            Water         WC Method         >0.2         NEG         NEG            Glycol         WC Method         >0.2         NEG         NEG            WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample Status    |          |             |            | NORMAL      | NORMAL      |          |
| Water         WC Method         >0.2         NEG         NEG            Glycol         WC Method         Imil/base         current         history1         history2           WEAR METALS         method         limil/base         current         history1         history2           Iron         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CONTAMINATION    | N        | method      | limit/base | current     | history1    | history2 |
| Citycol         WC Method         NEG         NEG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fuel             |          | WC Method   | >3.0       | <1.0        | <1.0        |          |
| WEAR METALS         method         limit/base         current         history1         history2           iron         ppm         ASTM D5185m         >120         35         18            Chromium         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Water            |          | WC Method   | >0.2       | NEG         | NEG         |          |
| ron         ppm         ASTM D5185m         >120         35         18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Glycol           |          | WC Method   |            | NEG         | NEG         |          |
| Chromium         ppm         ASTM D5185m         >20         <1         <1            Nickel         ppm         ASTM D5185m         >5         1         4            Titanium         ppm         ASTM D5185m         >2         0         0            Silver         ppm         ASTM D5185m         >2         0         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WEAR METALS      |          | method      | limit/base | current     | history1    | history2 |
| Nickel         ppm         ASTM D5185m         >5         1         4            Titanium         ppm         ASTM D5185m         >2         0         0            Silver         ppm         ASTM D5185m         >2         0         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ron              | ppm      | ASTM D5185m | >120       | 35          | 18          |          |
| Titanium         ppm         ASTM D5185m         >2         0         0            Silver         ppm         ASTM D5185m         >2         0         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Chromium         | ppm      | ASTM D5185m | >20        | <1          | <1          |          |
| Silver         ppm         ASTM D5185m         >2         0         <1            Aluminum         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nickel           | ppm      | ASTM D5185m | >5         | 1           | 4           |          |
| Auminum         ppm         ASTM D5185m         >20         <1         1            Lead         ppm         ASTM D5185m         >40         0         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Titanium         | ppm      | ASTM D5185m | >2         | 0           | 0           |          |
| Lead         ppm         ASTM D5185m         >40         0         <1            Copper         ppm         ASTM D5185m         >330         3         5            Tin         ppm         ASTM D5185m         >15         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Silver           | ppm      | ASTM D5185m | >2         | 0           | <1          |          |
| Copper         ppm         ASTM D5185m         >330         3         5            Tin         ppm         ASTM D5185m         >15         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Aluminum         | ppm      | ASTM D5185m | >20        | <1          | 1           |          |
| Tin         ppm         ASTM D5185m         >15         <1         <1         <1            Vanadium         ppm         ASTM D5185m         0         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         250         6         2            Barium         ppm         ASTM D5185m         10         0         0            Molybdenum         ppm         ASTM D5185m         100         67         59            Manganese         ppm         ASTM D5185m         100         67         59            Vagnesium         ppm         ASTM D5185m         150         891         869            Calcium         ppm         ASTM D5185m         150         1005         964            Sulfur         ppm         ASTM D5185m         14250         2810         3161            CONTAMINANTS         method         limit/base         current         h                | Lead             | ppm      | ASTM D5185m | >40        | 0           | <1          |          |
| Vanadium         ppm         ASTM D5185m         <1         0            Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         250         6         2            Barium         ppm         ASTM D5185m         10         0         0            Magnese         ppm         ASTM D5185m         100         67         59            Magnesium         ppm         ASTM D5185m         100         67         59            Vagnesium         ppm         ASTM D5185m         100         67         59            Vagnesium         ppm         ASTM D5185m         100         67         59            Vagnesium         ppm         ASTM D5185m         450         891         869            Calcium         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         >25         4         3                          | Copper           | ppm      | ASTM D5185m | >330       | 3           | 5           |          |
| Cadmium         ppm         ASTM D5185m         0         0            ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         250         6         2            Barium         ppm         ASTM D5185m         10         0         0            Manganese         ppm         ASTM D5185m         100         67         59            Manganesum         ppm         ASTM D5185m         40         891         869            Calcium         ppm         ASTM D5185m         3000         1238         1298            Sulfur         ppm         ASTM D5185m         350         1229         1305            Sulfur         ppm         ASTM D5185m>225         4                           | Tin              | ppm      | ASTM D5185m | >15        | <1          | <1          |          |
| ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         250         6         2            Barium         ppm         ASTM D5185m         10         0         0            Molybdenum         ppm         ASTM D5185m         100         67         59            Maganese         ppm         ASTM D5185m         100         67         59            Magnesium         ppm         ASTM D5185m         450         891         869            Calcium         ppm         ASTM D5185m         450         891         869            Calcium         ppm         ASTM D5185m         100         1238         1298            Calcium         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         250         2810         3161            Solium         ppm         ASTM D5185m         >158         4         5            Sodium         ppm         ASTM D5185m                           | Vanadium         | ppm      | ASTM D5185m |            | <1          | 0           |          |
| Boron         ppm         ASTM D5185m         250         6         2            Barium         ppm         ASTM D5185m         10         0         0            Molybdenum         ppm         ASTM D5185m         100         67         59            Manganese         ppm         ASTM D5185m         100         67         59            Magnesium         ppm         ASTM D5185m         100         67         59            Magnesium         ppm         ASTM D5185m         100         67         59            Magnesium         ppm         ASTM D5185m         450         891         869            Calcium         ppm         ASTM D5185m         450         891         869            Zinc         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         >25         4         3            Solicon         ppm         ASTM D5185m         >20         <1                                                                                                                 | Cadmium          | ppm      | ASTM D5185m |            | 0           | 0           |          |
| Barium         ppm         ASTM D5185m         10         0         0            Molybdenum         ppm         ASTM D5185m         100         67         59            Manganese         ppm         ASTM D5185m         100         67         59            Magnesium         ppm         ASTM D5185m         450         891         869            Calcium         ppm         ASTM D5185m         3000         1238         1298            Calcium         ppm         ASTM D5185m         3000         1238         1298            Calcium         ppm         ASTM D5185m         1350         1229         1305            Zinc         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         4250         2810         3161            Solicon         ppm         ASTM D5185m         >25         4         3            Soldium         ppm         ASTM D5185m         >158         4         5            Potassium         ppm         ASTM                                       | ADDITIVES        |          | method      | limit/base | current     | history1    | history2 |
| Molybdenum         ppm         ASTM D5185m         100         67         59            Manganese         ppm         ASTM D5185m          <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Boron            | ppm      | ASTM D5185m | 250        | 6           | 2           |          |
| Manganese         ppm         ASTM D5185m         <1         <1            Magnesium         ppm         ASTM D5185m         450         891         869            Calcium         ppm         ASTM D5185m         3000         1238         1298            Phosphorus         ppm         ASTM D5185m         1150         1005         964            Zinc         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         4250         2810         3161            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                |                  | ppm      | ASTM D5185m | 10         | 0           | 0           |          |
| Magnesium         ppm         ASTM D5185m         450         891         869            Calcium         ppm         ASTM D5185m         3000         1238         1298            Phosphorus         ppm         ASTM D5185m         1150         1005         964            Zinc         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         4250         2810         3161            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                           | Nolybdenum       | ppm      | ASTM D5185m | 100        | 67          | 59          |          |
| Calcium         ppm         ASTM D5185m         3000         1238         1298            Phosphorus         ppm         ASTM D5185m         1150         1005         964            Zinc         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         4250         2810         3161            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                    | Vanganese        | ppm      | ASTM D5185m |            | <1          |             |          |
| Phosphorus         ppm         ASTM D5185m         1150         1005         964            Zinc         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         4250         2810         3161            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >20         <1         1            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >4         1.5         1.2            Nitration         Abs/cm         *ASTM D7624         >20         8.9         8.8            Sulfation         Abs/.1mm         *ASTM D7415 | Vagnesium        | ppm      |             |            |             |             |          |
| Zinc         ppm         ASTM D5185m         1350         1229         1305            Sulfur         ppm         ASTM D5185m         4250         2810         3161            CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  | ppm      | ASTM D5185m | 3000       |             |             |          |
| SulfurppmASTM D5185m425028103161CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>2543SodiumppmASTM D5185m>15845PotassiumppmASTM D5185m>20<1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |          |             |            |             |             |          |
| CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>2543SodiumppmASTM D5185m>15845PotassiumppmASTM D5185m>20<1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | ppm      |             |            | 1229        |             |          |
| Silicon         ppm         ASTM D5185m         >25         4         3            Sodium         ppm         ASTM D5185m         >158         4         5            Potassium         ppm         ASTM D5185m         >158         4         5            INFRA-RED         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |          | ASTM D5185m | 4250       | 2810        | 3161        |          |
| Sodium         ppm         ASTM D5185m         >158         4         5            Potassium         ppm         ASTM D5185m         >20         <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |          |             |            |             |             | history2 |
| Potassium         ppm         ASTM D5185m         >20         <1         1            INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >4         1.5         1.2            Nitration         Abs/cm         *ASTM D7624         >20         8.9         8.8            Sulfation         Abs/.1mm         *ASTM D7415         >30         22.1         21.7            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.9         15.4                                                                                                                                                                                                                                                                                                                                                                                      |                  |          |             |            |             |             |          |
| INFRA-RED         method         limit/base         current         history1         history2           Soot %         %         *ASTM D7844         >4         1.5         1.2            Nitration         Abs/cm         *ASTM D7624         >20         8.9         8.8            Sulfation         Abs/.1mm         *ASTM D7415         >30         22.1         21.7            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.9         15.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |          |             |            |             |             |          |
| Soot %         %         *ASTM D7844         >4         1.5         1.2            Nitration         Abs/cm         *ASTM D7624         >20         8.9         8.8            Sulfation         Abs/.1mm         *ASTM D7415         >30         22.1         21.7            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.9         15.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | ppm      |             |            |             |             |          |
| Nitration         Abs/cm         *ASTM D7624         >20         8.9         8.8            Sulfation         Abs/.1mm         *ASTM D7415         >30         22.1         21.7            FLUID DEGRADATION         method         limit/base         current         history1         history2           Oxidation         Abs/.1mm         *ASTM D7414         >25         15.9         15.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |          |             |            |             |             |          |
| SulfationAbs/.1mm*ASTM D7415>3022.121.7FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2515.915.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |          |             |            |             |             |          |
| FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     15.9     15.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |          |             |            |             |             |          |
| Oxidation Abs/.1mm *ASTM D7414 >25 15.9 15.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sulfation        | Abs/.1mm | *ASTM D7415 | >30        | 22.1        | 21.7        |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  | TION     |             | limit/base |             |             | history2 |
| Base Number (BN)         mg KOH/g         ASTM D2896         8.5         8.6         7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |          |             |            |             |             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Base Number (BN) | mg KOH/g | ASTM D2896  | 8.5        | 8.6         | 7.7         |          |



# **OIL ANALYSIS REPORT**

VISUAL





|                                                                   | White Metal             | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NONE          | NONE              |                |
|-------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|----------------|
|                                                                   | Yellow Metal            | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NONE          | NONE              |                |
|                                                                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                   |                |
|                                                                   | Precipitate             | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NONE          | NONE              |                |
|                                                                   | Silt                    | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NONE          | NONE              |                |
|                                                                   | Debris                  | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NONE          | NONE              |                |
|                                                                   | Sand/Dirt               | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NONE          | NONE              |                |
| 0ct30/23                                                          | Appearance              | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NORML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NORML         | NORML             |                |
| 0                                                                 | Odor                    | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NORML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NORML         | NORML             |                |
| 0°C                                                               | Emulsified Water        | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | >0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NEG           | NEG               |                |
|                                                                   | Free Water              | scalar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *Visual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NEG           | NEG               |                |
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|                                                                   | <sup>E</sup> 15-        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                   |                |
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|                                                                   | Non-ferrous Metal       | s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                   |                |
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|                                                                   | c19/22                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0ct30/23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                   |                |
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|                                                                   | Viscosity @ 100°C       | ;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Base Number   |                   |                |
|                                                                   | 18                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1             |                   |                |
|                                                                   | 17- Abnormal            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Abnormal      |                   |                |
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|                                                                   | 2015<br>Base<br>to 14   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                   |                |
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|                                                                   | Abnormai                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                   |                |
|                                                                   | 12-                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1             |                   |                |
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|                                                                   | Dec19/22                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0ct30/23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Dec19/22      |                   | 0ct30/23       |
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| Laboratory                                                        | : WearCheck USA - 5     | 01 Madi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | son Ave., Ca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ry, NC 27513                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Apple Valle   | y Waste - Chamber | sburg Location |
| ANAR Sample No.                                                   | : WC0847978             | Recieved                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>d</b> :16.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Jan 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | 5436              | Sunset Pike    |
| Lab Number                                                        |                         | Diagnos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Jan 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | Cham              | bersburg, PA   |
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| Certificate L2367 Test Package                                    | : CONST (Additional     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               | Contact: Ser      | vice Manager   |
| To discuss this sample report,<br>* - Denotes test methods that a |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                   | T:             |
| Statements of conformity to spec                                  |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CGM 106:2012) |                   | F:             |
| .,                                                                |                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - /           |                   |                |