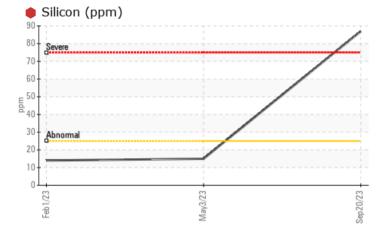
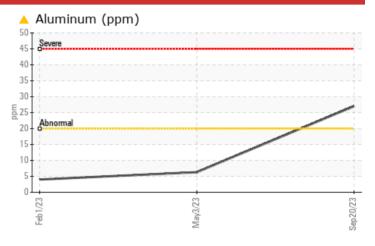


# COMPONENT CONDITION SUMMARY





### RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS |     |             |     |             |        |        |  |
|--------------------------|-----|-------------|-----|-------------|--------|--------|--|
| Sample Status            |     |             |     | SEVERE      | NORMAL | NORMAL |  |
| Aluminum                 | ppm | ASTM D5185m | >20 | <u> </u>    | 6      | 4      |  |
| Silicon                  | ppm | ASTM D5185m | >25 | <b>e</b> 87 | 15     | 14     |  |

Customer Id: AVWEHT Sample No.: WC0784017 Lab Number: 05961006 Test Package: CONST



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

| RECOMMENDED ACTIONS |        |      |         |  |  |  |  |
|---------------------|--------|------|---------|--|--|--|--|
| Action              | Status | Date | Done By | Description  |  |  |  |
| Change Fluid        |        |      | ?       | Oil and filter change at the time of sampling has been noted.  |  |  |  |
| Change Filter       |        |      | ?       | Oil and filter change at the time of sampling has been noted.  |  |  |  |
| Resample            |        |      | ?       | We recommend an early resample to monitor this condition.  |  |  |  |
| Check Dirt Access   |        |      | ?       | We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. |  |  |  |

## HISTORICAL DIAGNOSIS



03 May 2023 Diag: Wes Davis

01 Feb 2023 Diag: Wes Davis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



#### NORMAL



Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend

DIRT

 $\mathbf{X}$ 



Diesel Engine

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

## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### 🔺 Wear

All component wear rates are normal.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

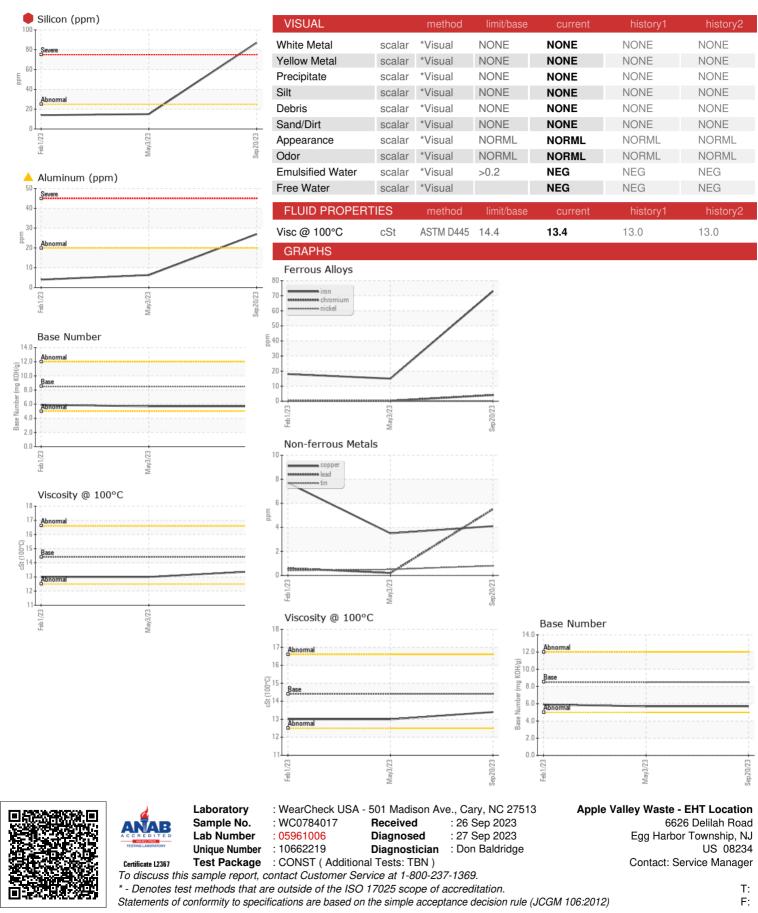
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

| Sample Number     Client Info     WC0784017     WC0783994     WC0784008       Sample Date     Client Info     20 Sep 2023     03 May 2023     01 Feb 2023       Machine Age     hrs     Client Info     12828     12200     11554       Dil Age     hrs     Client Info     12828     12200     11554       Dil Changed     Client Info     Exel     NORMAL     NORMAL     NORMAL       Sample Status     Imit Mass     Current     Nistory     Nistory     Nistory       Silycol     WC Method     >3.0     <1.0     <1.0     <1.0       Silycol     WC Method     >3.0     <1.0     <1.0     <1.0       Silycol     WC Method     Sample Status     NEG     NEG     NEG       Silycol     ppm     ASTM D51655     >2.0     4     <1     <1       Silycol     ppm     ASTM D51655     >2.0     0     0     <1       Numinum     ppm     ASTM D51655     >2.0     2     <1     <1     <1     <1   | AE 15W40 ( G     | AL)      | Fel         | 2023       | May2023 Sep20 | 123         |             |
|---|------------------|----------|-------------|------------|---------------|-------------|-------------|
| Sample Date     Client Info     20 Sep 2023     03 May 2023     01 Feb 2023       Machine Age     hrs     Client Info     12828     12200     11554       Dil Age     hrs     Client Info     826     603     0       Dil Changed     Client Info     Changed     Cha | SAMPLE INFORM    | MATION   | method      | limit/base | current       | history1    | history2    |
| Machine Age     hrs     Client Info     12828     12200     11554       Di Age     hrs     Client Info     826     603     0       Dial Changed     Client Info     SEVERE     NORMAL     NORMAL       Sample Status     Imit/Dom     method     Imit/Dase     current     NormAL     NORMAL       CONTAMINATION     method     Imit/Dase     current     NormAL     NORMAL       Supol Status     Imit/Dase     current     Nistory1     Nistory2       Fuel     WC Method     >3.0     <1.0   | Sample Number    |          | Client Info |            | WC0784017     | WC0783994   | WC0784008   |
| Dil Age hrs Client Info 826 603 0   Dil Changed Client Info Changed Changed Changed Changed   Sample Status Imit base current history1 history2   Euel WC Method >3.0 <1.0  | Sample Date      |          | Client Info |            | 20 Sep 2023   | 03 May 2023 | 01 Feb 2023 |
| Dil Changed Client Info Changed Changed Changed NORMAL NORMAL   Sample Status method imit/base current history1 NIStory2   Contramination WC Method >3.0 <1.0   | Machine Age      | hrs      | Client Info |            | 12828         | 12200       | 11554       |
| Sample Status     Image: Status     SEVERE     NORMAL     NORMAL       CONTAMINATION     method     imit/base     current     history1     history2       Fuel     WC Method     >3.0     <1.0  | Oil Age          | hrs      | Client Info |            | 826           | 603         | 0           |
| CONTAMINATION     method     limit/base     current     history1     history2       Fuel     WC Method     >3.0     <1.0  | Oil Changed      |          | Client Info |            | Changed       | Changed     | Changed     |
| Fuel     WC Method     >3.0     <1.0     <1.0     <1.0     <1.0       Blycol     WC Method     NEG     NEG     NEG     NEG       WEAR METALS     method     limit/base     current     history1     history2       ron     ppm     ASTM D5185m     >20     4     <1   | Sample Status    |          |             |            | SEVERE        | NORMAL      | NORMAL      |
| Bilycol     WC Method     NEG     NEG     NEG       VVEAR METALS     method     limit/base     current     history1     history2       ron     ppm     ASTM D5185m     >120     73     15     18       Chromium     ppm     ASTM D5185m     >20     4     <1  | CONTAMINATIO     | N        | method      | limit/base | current       | history1    | history2    |
| WEAR METALS     method     limit/base     current     history1     history2       ron     ppm     ASTM D5185m     >120     73     15     18       Dromium     ppm     ASTM D5185m     >20     4     <1  | Fuel             |          | WC Method   | >3.0       | <1.0          | <1.0        | <1.0        |
| ron     ppm     ASTM D5185m     >120     73     15     18       Chromium     ppm     ASTM D5185m     >20     4     <1   | Glycol           |          | WC Method   |            | NEG           | NEG         | NEG         |
| Dpm     ASTM D5185m     >20     4     <1     <1       Nickel     ppm     ASTM D5185m     >5     0     0     0       Silver     ppm     ASTM D5185m     >2     2     <1  | WEAR METALS      |          | method      | limit/base | current       | history1    | history2    |
| Nickel     ppm     ASTM D5185m     >5     0     0     0       Fitanium     ppm     ASTM D5185m     >2     2     <1  | Iron             | ppm      | ASTM D5185m | >120       | 73            | 15          | 18          |
| Titanium     ppm     ASTM D5185m     >2     2     <1     0       Silver     ppm     ASTM D5185m     >2     0     0     <1   | Chromium         | ppm      | ASTM D5185m | >20        | 4             | <1          | <1          |
| Silver     ppm     ASTM D5185m     >2     0     0     <1       Aluminum     ppm     ASTM D5185m     >20     ▲ 27     6     4       Lead     ppm     ASTM D5185m     >330     4     4     8       Copper     ppm     ASTM D5185m     >330     4     4     8       Copper     ppm     ASTM D5185m     >15     <1  | Nickel           | ppm      | ASTM D5185m | >5         | 0             | 0           | 0           |
| Numinum     ppm     ASTM D5185m     >20     ▲ 27     6     4       Lead     ppm     ASTM D5185m     >40     6     <1  | Titanium         | ppm      | ASTM D5185m | >2         | 2             | <1          | 0           |
| ead     ppm     ASTM D5185m     >40     6     <1     <1       Copper     ppm     ASTM D5185m     >330     4     4     8       Fin     ppm     ASTM D5185m     >15     <1  | Silver           | ppm      | ASTM D5185m | >2         | 0             | 0           | <1          |
| Copper     ppm     ASTM D5185m     >330     4     4     8       Fin     ppm     ASTM D5185m     >15     <1  | Aluminum         | ppm      | ASTM D5185m | >20        | <u> </u>      | 6           | 4           |
| Tin     ppm     ASTM D5185m     >15     <1     <1     <1       Vanadium     ppm     ASTM D5185m     0     0     0       Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     250     19     32     17       Barium     ppm     ASTM D5185m     10     0     0     0       Molybdenum     ppm     ASTM D5185m     100     85     82     54       Magnese     ppm     ASTM D5185m     100     85     2020     2130       Pohosphorus     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     150     1068     937     929       Zinc     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     >25     87     15   | Lead             | ppm      | ASTM D5185m | >40        | 6             | <1          | <1          |
| Vanadium     ppm     ASTM D5185m     <1     0     0       Cadmium     ppm     ASTM D5185m     0     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     250     19     32     17       Barium     ppm     ASTM D5185m     250     19     32     17       Barium     ppm     ASTM D5185m     10     0     0     0     0       Maganese     ppm     ASTM D5185m     100     85     82     54       Maganesum     ppm     ASTM D5185m     100     85     82     54       Magnesum     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     3000     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     >25   | Copper           | ppm      | ASTM D5185m | >330       | 4             | 4           | 8           |
| Cadmium     ppm     ASTM D5185m     0     0     0       ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     250     19     32     17       Barium     ppm     ASTM D5185m     10     0     0     0       Maganese     ppm     ASTM D5185m     100     85     82     54       Maganese     ppm     ASTM D5185m     100     85     82     54       Magnesium     ppm     ASTM D5185m     100     85     82     54       Magnesium     ppm     ASTM D5185m     100     85     82     54       Magnesium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     3000     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     255     87  | Tin              | ppm      | ASTM D5185m | >15        | <1            | <1          | <1          |
| ADDITIVES     method     limit/base     current     history1     history2       Boron     ppm     ASTM D5185m     250     19     32     17       Barium     ppm     ASTM D5185m     10     0     0     0       Marganese     ppm     ASTM D5185m     100     85     82     54       Marganese     ppm     ASTM D5185m     100     85     82     54       Magnesium     ppm     ASTM D5185m     100     85     82     54       Magnesium     ppm     ASTM D5185m     100     85     82     204       Calcium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     1300     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     225     87     15     14       Sodium     ppm     ASTM D5185m     226<   | Vanadium         | ppm      | ASTM D5185m |            | <1            | 0           | 0           |
| Boron     ppm     ASTM D5185m     250     19     32     17       Barium     ppm     ASTM D5185m     10     0     0     0       Molybdenum     ppm     ASTM D5185m     100     85     82     54       Manganese     ppm     ASTM D5185m     100     85     82     54       Magnesium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     3000     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >20  | Cadmium          | ppm      | ASTM D5185m |            | 0             | 0           | 0           |
| Barium     ppm     ASTM D5185m     10     0     0     0       Molybdenum     ppm     ASTM D5185m     100     85     82     54       Manganese     ppm     ASTM D5185m     100     85     82     54       Magnesium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     3000     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     4250     4724     3792     3799       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >158     14     5     2       Potassium     ppm     ASTM D5185m </td <td>ADDITIVES</td> <td></td> <td>method</td> <td>limit/base</td> <th>current</th> <td>history1</td> <td>history2</td>               | ADDITIVES        |          | method      | limit/base | current       | history1    | history2    |
| Molybdenum     ppm     ASTM D5185m     100     85     82     54       Manganese     ppm     ASTM D5185m     <   | Boron            | ppm      | ASTM D5185m | 250        | 19            | 32          | 17          |
| Manganese     ppm     ASTM D5185m     <1     0     <1       Magnesium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     3000     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1150     1068     937     929       Zinc     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     4250     4724     3792     3799       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >158     14     5     2       Sodium     ppm     ASTM D5185m     >158     14     5     2       Potassium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4 <t< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185m</td><td>10</td><th>0</th><td>0</td><td>0</td></t<>                                   | Barium           | ppm      | ASTM D5185m | 10         | 0             | 0           | 0           |
| Magnesium     ppm     ASTM D5185m     450     128     132     90       Calcium     ppm     ASTM D5185m     3000     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1150     1068     937     929       Zinc     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     4250     4724     3792     3799       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >158     14     5     2       Potassium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/cm     *ASTM D7624  | Molybdenum       | ppm      | ASTM D5185m | 100        | 85            | 82          | 54          |
| Date     Ppm     ASTM D5185m     3000     2285     2020     2130       Phosphorus     ppm     ASTM D5185m     1150     1068     937     929       Zinc     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     4250     4724     3792     3799       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >158     14     5     2       Potassium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Nitration     Abs/.mm< *ASTM D7624  | Manganese        | ppm      | ASTM D5185m |            | <1            | 0           | <1          |
| Phosphorus     ppm     ASTM D5185m     1150     1068     937     929       Zinc     ppm     ASTM D5185m     1350     1342     1166     1133       Soulfur     ppm     ASTM D5185m     1350     1342     1166     1133       Soulfur     ppm     ASTM D5185m     4250     4724     3792     3799       CONTAMINANTS     method     limit/base     current     history1     history2       Solicon     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >158     14     5     2       Potassium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Nitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7415<   | Magnesium        | ppm      | ASTM D5185m | 450        | 128           | 132         | 90          |
| Zinc     ppm     ASTM D5185m     1350     1342     1166     1133       Sulfur     ppm     ASTM D5185m     4250     4724     3792     3799       CONTAMINANTS     method     limit/base     current     history1     history2       Silicon     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Nitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7415     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base </td <td>Calcium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>3000</td> <th>2285</th> <td>2020</td> <td>2130</td>             | Calcium          | ppm      | ASTM D5185m | 3000       | 2285          | 2020        | 2130        |
| SulfurppmASTM D5185m4250472437923799CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25871514SodiumppmASTM D5185m>1581452PotassiumppmASTM D5185m>20903INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.50.40.4NitrationAbs/cm*ASTM D7624>209.79.79.5SulfationAbs/1mm*ASTM D7415>3020.720.819.5FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2515.614.912.8  | Phosphorus       | ppm      | ASTM D5185m | 1150       | 1068          | 937         | 929         |
| CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25871514SodiumppmASTM D5185m>1581452PotassiumppmASTM D5185m>20903INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>40.50.40.4NitrationAbs/cm*ASTM D7624>209.79.79.5SulfationAbs/Imm*ASTM D7415>3020.720.819.5FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/Imm*ASTM D7414>2515.614.912.8   | Zinc             | ppm      | ASTM D5185m | 1350       | 1342          | 1166        | 1133        |
| Silicon     ppm     ASTM D5185m     >25     87     15     14       Sodium     ppm     ASTM D5185m     >158     14     5     2       Potassium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Nitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7415     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8  | Sulfur           | ppm      | ASTM D5185m | 4250       | 4724          | 3792        | 3799        |
| Sodium     ppm     ASTM D5185m     >158     14     5     2       Potassium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Vitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7415     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8   | CONTAMINANTS     | 3        | method      | limit/base | current       | history1    | history2    |
| Potassium     ppm     ASTM D5185m     >20     9     0     3       INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Nitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7415     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8  | Silicon          | ppm      | ASTM D5185m | >25        | <b>e</b> 87   | 15          | 14          |
| INFRA-RED     method     limit/base     current     history1     history2       Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Nitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7415     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base     current     history1     history2       Dxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8  | Sodium           | ppm      | ASTM D5185m | >158       | 14            | 5           | 2           |
| Soot %     %     *ASTM D7844     >4     0.5     0.4     0.4       Nitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7415     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base     current     history1     history2       Dxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8  | Potassium        | ppm      | ASTM D5185m | >20        | 9             | 0           | 3           |
| Nitration     Abs/cm     *ASTM D7624     >20     9.7     9.7     9.5       Sulfation     Abs/.1mm     *ASTM D7615     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base     current     history1     history2       Oxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8  | INFRA-RED        |          | method      | limit/base | current       | history1    | history2    |
| Sulfation     Abs/.1mm     *ASTM D7415     >30     20.7     20.8     19.5       FLUID DEGRADATION     method     limit/base     current     history1     history2       Dxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8   | Soot %           | %        | *ASTM D7844 | >4         | 0.5           | 0.4         | 0.4         |
| FLUID DEGRADATION     method     limit/base     current     history1     history2       Dxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8   | Nitration        | Abs/cm   | *ASTM D7624 | >20        | 9.7           | 9.7         | 9.5         |
| Dxidation     Abs/.1mm     *ASTM D7414     >25     15.6     14.9     12.8   | Sulfation        | Abs/.1mm | *ASTM D7415 | >30        | 20.7          | 20.8        | 19.5        |
|   | FLUID DEGRAD     | ATION    | method      | limit/base | current       | history1    | history2    |
| Base Number (BN)     mg KOH/g     ASTM D2896     8.5     5.7     5.7     5.9  | Oxidation        | Abs/.1mm | *ASTM D7414 | >25        | 15.6          | 14.9        | 12.8        |
|   | Base Number (BN) | mg KOH/g | ASTM D2896  | 8.5        | 5.7           | 5.7         | 5.9         |



# **OIL ANALYSIS REPORT**



Contact/Location: Service Manager - AVWEHT