



# OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Machine Id  
**H0052**  
Component  
**Transmission**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0865347</b>   | WC0865339   | WC0865368   |
| Sample Date    |     | Client Info |           | <b>19 Dec 2023</b> | 27 Nov 2023 | 24 Oct 2023 |
| Machine Age    | mls | Client Info |           | <b>508</b>         | 567         | 469         |
| Oil Age        | mls | Client Info |           | <b>508</b>         | 95          | 0           |
| Filter Age     | mls | Client Info |           | <b>508</b>         | 95          | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >200 | <b>51</b>    | 44   | 31   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | <1   |
| Nickel       | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | <1   |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>3</b>     | 2    | 1    |
| Aluminum     | ppm    | ASTM D5185m | >50  | <b>9</b>     | 9    | 8    |
| Lead         | ppm    | ASTM D5185m | >50  | <b>15</b>    | 15   | 13   |
| Copper       | ppm    | ASTM D5185m | >200 | <b>94</b>    | 103  | 93   |
| Tin          | ppm    | ASTM D5185m | >10  | <b>4</b>     | 3    | 3    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

## CONTAMINATION

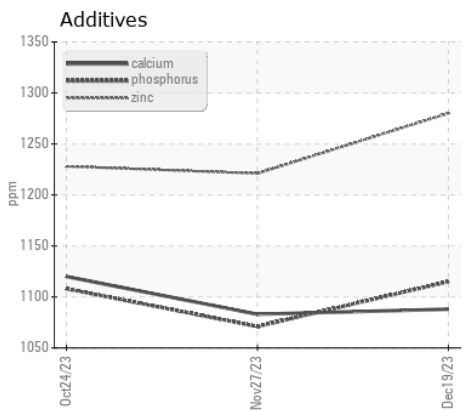
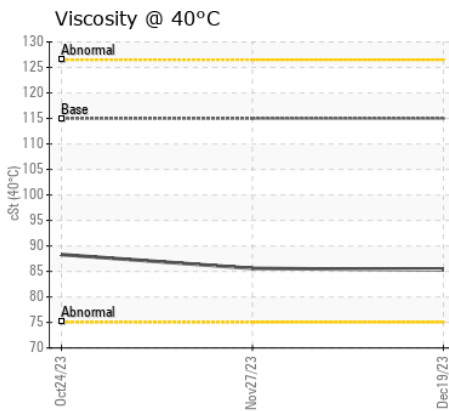
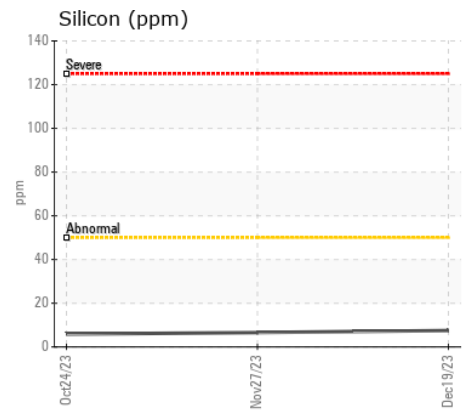
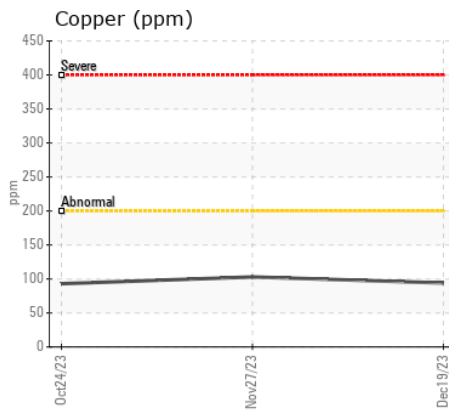
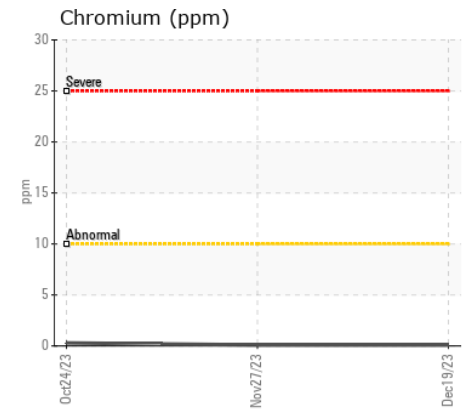
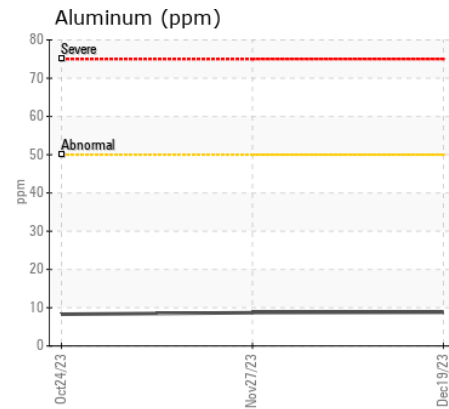
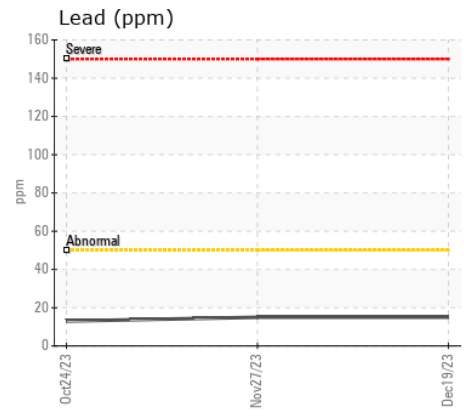
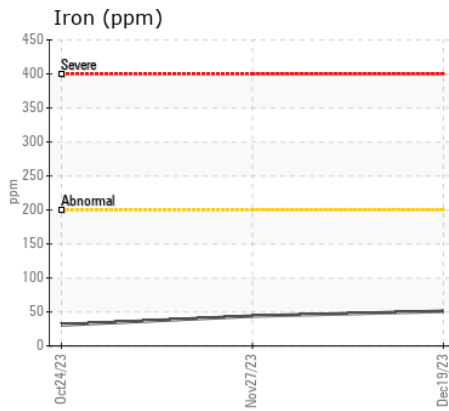
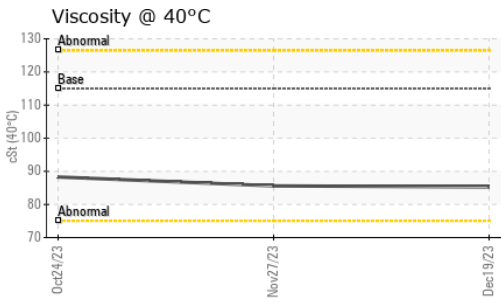
There is no indication of any contamination in the fluid.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>8</b>     | 7     | 6     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 2     | 2     |
| Water            |        | WC Method   | >0.1  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.1  | <b>NEG</b>   | NEG   | NEG   |

## FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

|             |     |             |      |              |      |      |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium      | ppm | ASTM D5185m | >158 | <b>&lt;1</b> | 0    | 2    |
| Boron       | ppm | ASTM D5185m | 250  | <b>9</b>     | 6    | 5    |
| Barium      | ppm | ASTM D5185m | 10   | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 100  | <b>59</b>    | 63   | 63   |
| Manganese   | ppm | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Magnesium   | ppm | ASTM D5185m | 450  | <b>970</b>   | 949  | 959  |
| Calcium     | ppm | ASTM D5185m | 3000 | <b>1088</b>  | 1083 | 1120 |
| Phosphorus  | ppm | ASTM D5185m | 1150 | <b>1115</b>  | 1071 | 1108 |
| Zinc        | ppm | ASTM D5185m | 1350 | <b>1280</b>  | 1221 | 1228 |
| Sulfur      | ppm | ASTM D5185m | 4250 | <b>3356</b>  | 3839 | 3627 |
| Visc @ 40°C | cSt | ASTM D445   | 115  | <b>85.3</b>  | 85.6 | 88.3 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0865347 **Received** : 10 Jan 2024  
**Lab Number** : 06057544 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10823493 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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