



# OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id  
**139-448**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | RPL0016757  | ---      | ---      |
| Sample Date    |     | Client Info |           | 12 Apr 2024 | ---      | ---      |
| Machine Age    | mls | Client Info |           | 350399      | ---      | ---      |
| Oil Age        | mls | Client Info |           | 350399      | ---      | ---      |
| Filter Age     | mls | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | N/A         | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A         | ---      | ---      |
| Sample Status  |     |             |           | NORMAL      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >100 | 10   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <1   | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >4   | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m | >3   | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >20  | 3    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >40  | 1    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >330 | 0    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >15  | <1   | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

## CONTAMINATION

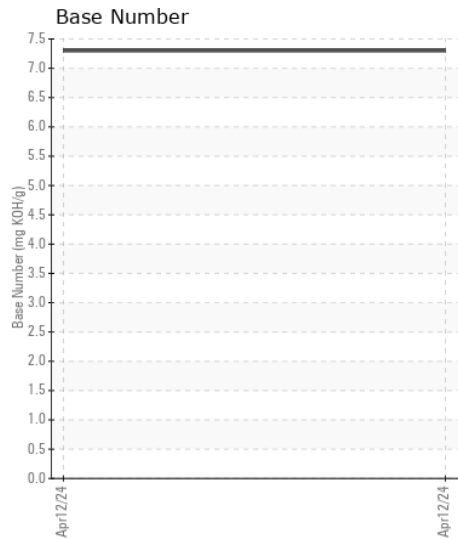
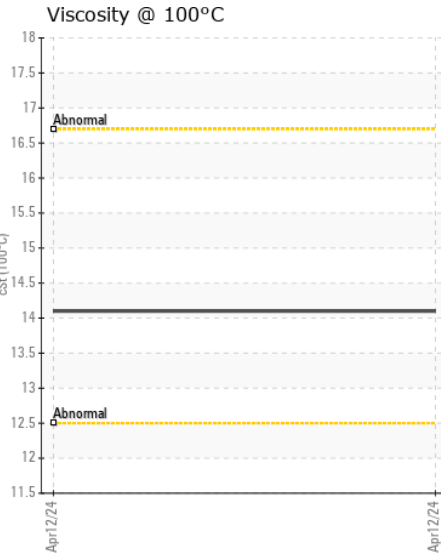
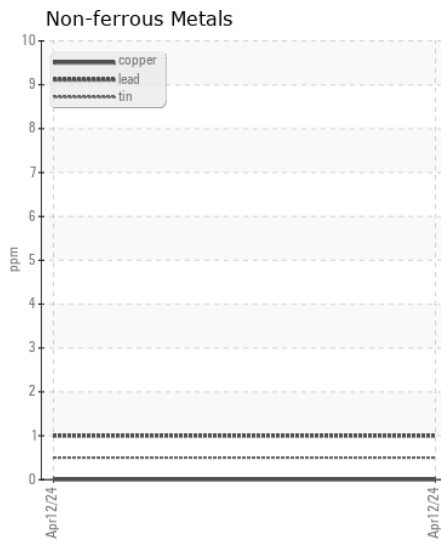
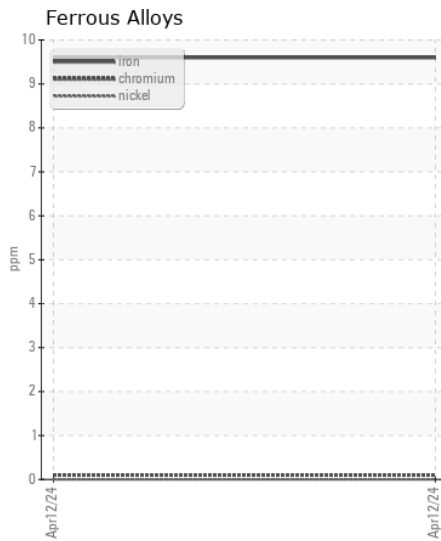
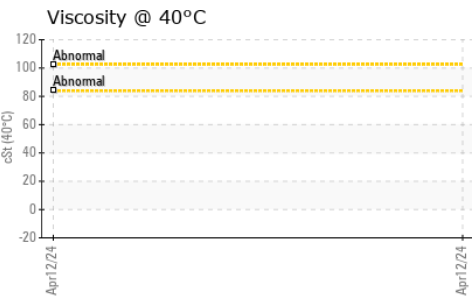
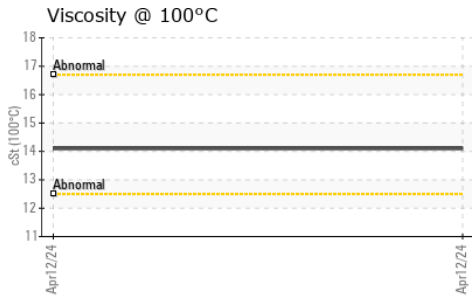
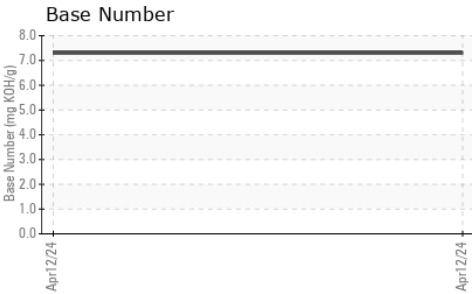
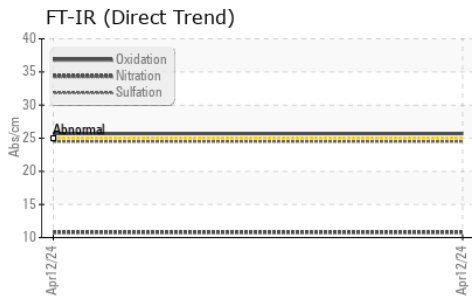
There is no indication of any contamination in the oil.

|                  |          |             |       |       |     |     |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon          | ppm      | ASTM D5185m | >25   | 5     | --- | --- |
| Potassium        | ppm      | ASTM D5185m | >20   | 3     | --- | --- |
| Fuel             |          | WC Method   | >5    | <1.0  | --- | --- |
| Water            |          | WC Method   | >0.2  | NEG   | --- | --- |
| Glycol           |          | WC Method   |       | NEG   | --- | --- |
| Soot %           | %        | *ASTM D7844 | >3    | 0.5   | --- | --- |
| Nitration        | Abs/cm   | *ASTM D7624 | >20   | 10.8  | --- | --- |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30   | 24.5  | --- | --- |
| Silt             | scalar   | *Visual     | NONE  | NONE  | --- | --- |
| Debris           | scalar   | *Visual     | NONE  | NONE  | --- | --- |
| Sand/Dirt        | scalar   | *Visual     | NONE  | NONE  | --- | --- |
| Appearance       | scalar   | *Visual     | NORML | NORML | --- | --- |
| Odor             | scalar   | *Visual     | NORML | NORML | --- | --- |
| Emulsified Water | scalar   | *Visual     | >0.2  | NEG   | --- | --- |

## 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.

|                  |          |             |     |      |     |     |
|------------------|----------|-------------|-----|------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |     | <1   | --- | --- |
| Boron            | ppm      | ASTM D5185m |     | 43   | --- | --- |
| Barium           | ppm      | ASTM D5185m |     | 0    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |     | 44   | --- | --- |
| Manganese        | ppm      | ASTM D5185m |     | 0    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |     | 525  | --- | --- |
| Calcium          | ppm      | ASTM D5185m |     | 1784 | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |     | 758  | --- | --- |
| Zinc             | ppm      | ASTM D5185m |     | 916  | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |     | 2592 | --- | --- |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25 | 25.7 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896  |     | 7.30 | --- | --- |
| Visc @ 100°C     | cSt      | ASTM D445   |     | 14.1 | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0016757 **Received** : 17 Apr 2024  
**Lab Number** : 06151669 **Tested** : 22 Apr 2024  
**Unique Number** : 10981747 **Diagnosed** : 22 Apr 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: KV40 )

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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)