



# OIL ANALYSIS REPORT

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

Machine Id  
**846-5131**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | RPL0016920  | ---      | ---      |
| Sample Date    |     | Client Info |           | 27 Dec 2023 | ---      | ---      |
| Machine Age    | mls | Client Info |           | 12680       | ---      | ---      |
| Oil Age        | mls | Client Info |           | 12680       | ---      | ---      |
| Filter Age     | mls | Client Info |           | 12680       | ---      | ---      |
| Oil Changed    |     | Client Info |           | Not Chngd   | ---      | ---      |
| Filter Changed |     | Client Info |           | Not Chngd   | ---      | ---      |
| Sample Status  |     |             |           | ATTENTION   | ---      | ---      |

## WEAR

Metal levels are typical for a new component breaking in.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >100 | 38   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >4   | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m | >3   | <1   | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >20  | 7    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >40  | <1   | --- | --- |
| Copper       | ppm    | ASTM D5185m | >330 | 17   | --- | --- |
| Tin          | ppm    | ASTM D5185m | >15  | 1    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

## CONTAMINATION

Fuel content negligible. There is no indication of any contamination in the oil.

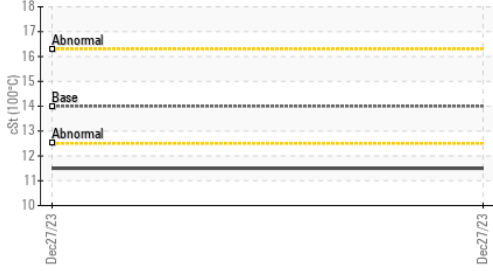
|                  |          |             |       |       |     |     |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon          | ppm      | ASTM D5185m | >25   | 8     | --- | --- |
| Potassium        | ppm      | ASTM D5185m | >20   | 34    | --- | --- |
| Fuel             | %        | ASTM D3524  | >5    | 0.8   | --- | --- |
| Water            |          | WC Method   | >0.2  | NEG   | --- | --- |
| Glycol           |          | WC Method   |       | NEG   | --- | --- |
| Soot %           | %        | *ASTM D7844 | >3    | 0.1   | --- | --- |
| Nitration        | Abs/cm   | *ASTM D7624 | >20   | 9.4   | --- | --- |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30   | 20.3  | --- | --- |
| 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

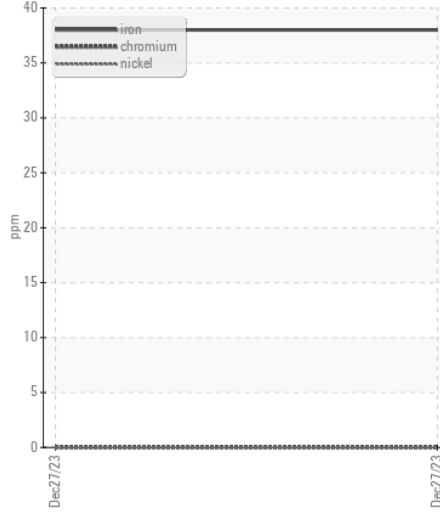
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

|                  |          |             |     |        |     |     |
|------------------|----------|-------------|-----|--------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |     | 3      | --- | --- |
| Boron            | ppm      | ASTM D5185m | 0   | 35     | --- | --- |
| Barium           | ppm      | ASTM D5185m | 0   | 0      | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m | 0   | 11     | --- | --- |
| Manganese        | ppm      | ASTM D5185m |     | 1      | --- | --- |
| Magnesium        | ppm      | ASTM D5185m | 0   | 749    | --- | --- |
| Calcium          | ppm      | ASTM D5185m |     | 1239   | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |     | 666    | --- | --- |
| Zinc             | ppm      | ASTM D5185m |     | 895    | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |     | 2787   | --- | --- |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25 | 15.3   | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896  | 9.4 | 6.2    | --- | --- |
| Visc @ 100°C     | cSt      | ASTM D445   | 14  | ▲ 11.5 | --- | --- |

▲ Viscosity @ 100°C



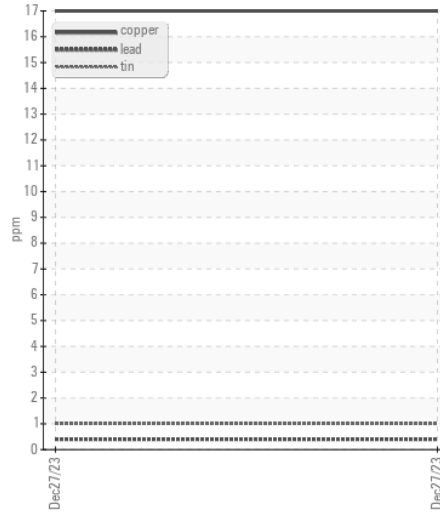
Ferrous Alloys



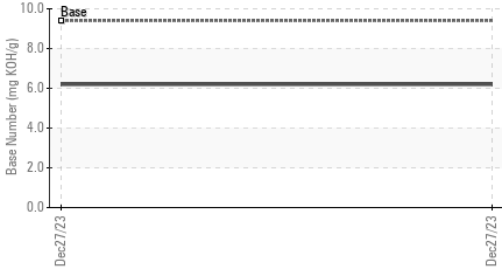
Fuel Dilution



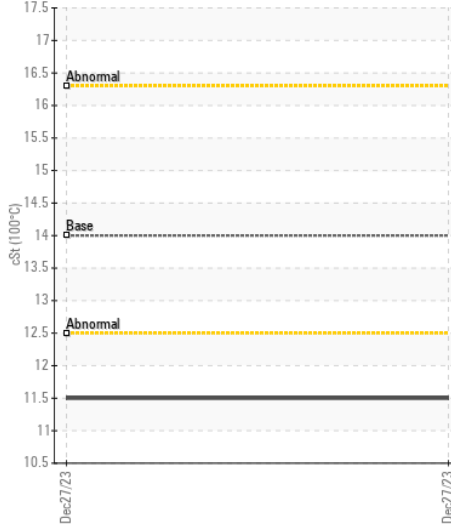
Non-ferrous Metals



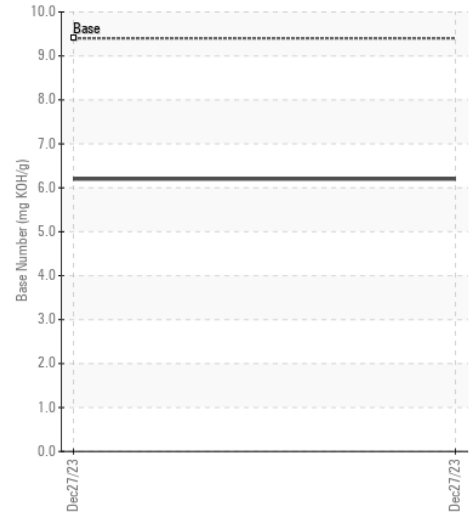
Base Number



▲ Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0016920 **Received** : 11 Jan 2024  
**Lab Number** : 06057795 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10829177 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**RTL PACLEASE - 7007 - Fontana**  
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 Bloomington, CA  
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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)