



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**272568**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 15W40 (46 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>RPL0017877</b>  | RPL0007567  | ---      |
| Sample Date    |     | Client Info |           | <b>06 Jul 2024</b> | 09 Oct 2023 | ---      |
| Machine Age    | mls | Client Info |           | <b>156216</b>      | 88459       | ---      |
| Oil Age        | mls | Client Info |           | <b>156216</b>      | 27057       | ---      |
| Filter Age     | mls | Client Info |           | <b>156216</b>      | 27057       | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |     |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185m | >100 | <b>11</b>    | 15   | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | 0    | --- |
| Nickel       | ppm    | ASTM D5185m | >4   | <b>0</b>     | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | --- |
| Silver       | ppm    | ASTM D5185m | >3   | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >20  | <b>5</b>     | 11   | --- |
| Lead         | ppm    | ASTM D5185m | >40  | <b>&lt;1</b> | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >330 | <b>3</b>     | 4    | --- |
| Tin          | ppm    | ASTM D5185m | >15  | <b>&lt;1</b> | <1   | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |

## CONTAMINATION

There is no indication of any contamination in the oil.

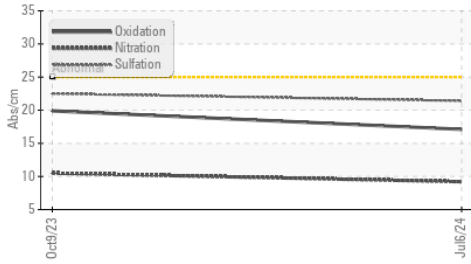
|                  |          |             |       |                |       |     |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon          | ppm      | ASTM D5185m | >25   | <b>6</b>       | 8     | --- |
| Potassium        | ppm      | ASTM D5185m | >20   | <b>7</b>       | 19    | --- |
| Fuel             |          | WC Method   | >5    | <b>&lt;1.0</b> | <1.0  | --- |
| Water            |          | WC Method   | >0.2  | <b>NEG</b>     | NEG   | --- |
| Glycol           |          | WC Method   |       | <b>NEG</b>     | NEG   | --- |
| Soot %           | %        | *ASTM D7844 | >3    | <b>0.5</b>     | 0.4   | --- |
| Nitration        | Abs/cm   | *ASTM D7624 | >20   | <b>9.2</b>     | 10.5  | --- |
| Sulfation        | Abs/.1mm | *ASTM D7415 | >30   | <b>21.4</b>    | 22.5  | --- |
| Silt             | scalar   | *Visual     | NONE  | <b>NONE</b>    | NONE  | --- |
| Debris           | scalar   | *Visual     | NONE  | <b>NONE</b>    | NONE  | --- |
| Sand/Dirt        | scalar   | *Visual     | NONE  | <b>NONE</b>    | NONE  | --- |
| Appearance       | scalar   | *Visual     | NORML | <b>NORML</b>   | NORML | --- |
| Odor             | scalar   | *Visual     | NORML | <b>NORML</b>   | NORML | --- |
| Emulsified Water | scalar   | *Visual     | >0.2  | <b>NEG</b>     | NEG   | --- |

## FLUID CONDITION

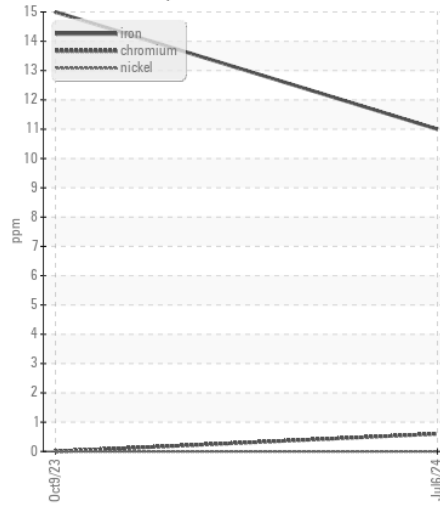
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

|                  |          |             |     |             |      |     |
|------------------|----------|-------------|-----|-------------|------|-----|
| Sodium           | ppm      | ASTM D5185m |     | <b>2</b>    | 4    | --- |
| Boron            | ppm      | ASTM D5185m | 0   | <b>0</b>    | 33   | --- |
| Barium           | ppm      | ASTM D5185m | 0   | <b>0</b>    | <1   | --- |
| Molybdenum       | ppm      | ASTM D5185m | 0   | <b>67</b>   | 115  | --- |
| Manganese        | ppm      | ASTM D5185m |     | <b>0</b>    | <1   | --- |
| Magnesium        | ppm      | ASTM D5185m | 0   | <b>1025</b> | 669  | --- |
| Calcium          | ppm      | ASTM D5185m |     | <b>1237</b> | 1500 | --- |
| Phosphorus       | ppm      | ASTM D5185m |     | <b>1081</b> | 838  | --- |
| Zinc             | ppm      | ASTM D5185m |     | <b>1316</b> | 1027 | --- |
| Sulfur           | ppm      | ASTM D5185m |     | <b>2690</b> | 3205 | --- |
| Oxidation        | Abs/.1mm | *ASTM D7414 | >25 | <b>17.1</b> | 19.9 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896  | 9.4 | <b>7.9</b>  | 5.5  | --- |
| Visc @ 100°C     | cSt      | ASTM D445   | 14  | <b>14.5</b> | 14.5 | --- |

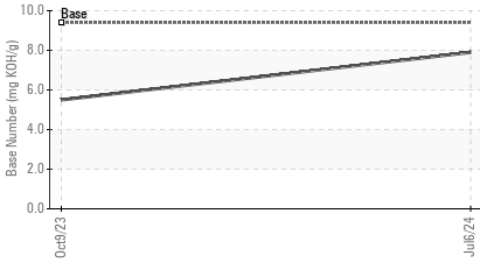
FT-IR (Direct Trend)



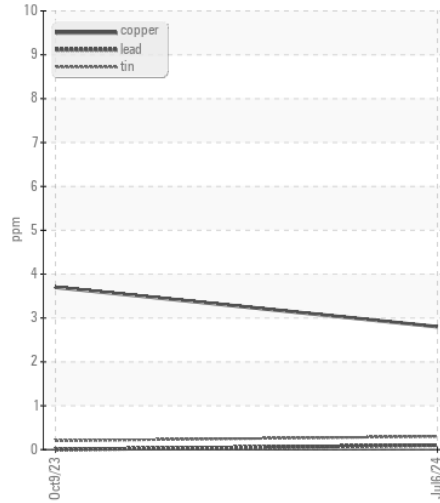
Ferrous Alloys



Base Number



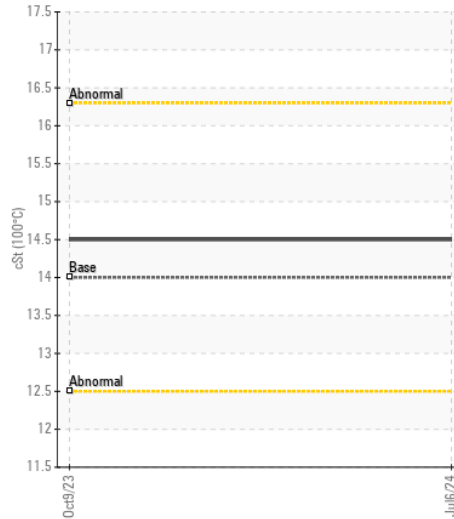
Non-ferrous Metals



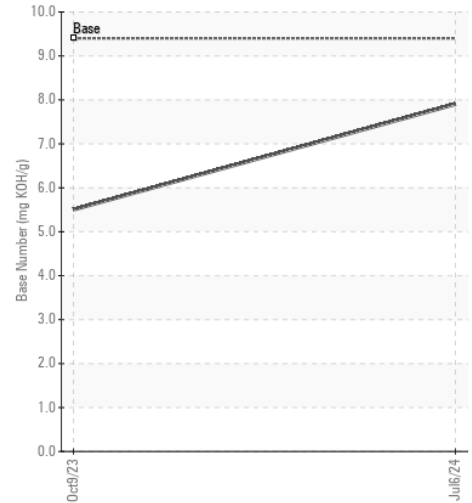
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0017877  
**Lab Number** : 06234598  
**Unique Number** : 11123432  
**Test Package** : FLEET

**RTL PACLEASE - 7039 - Denver**  
 379 W 66TH WAY  
 DENVER, CO  
 US 80221  
 Contact: JEFF THOMAS  
 thomasj2@rushenterprises.com

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)

T:  
F: