



PacLease

OIL ANALYSIS REPORT

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

Machine Id
846-4357
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | RPL0018133 | RPL0016902 | RPL0015113 |
| Sample Date | | Client Info | | 04 Apr 2024 | 04 Jan 2024 | 04 Oct 2023 |
| Machine Age | mls | Client Info | | 298845 | 308759 | 268759 |
| Oil Age | mls | Client Info | | 298845 | 40000 | 45046 |
| Filter Age | mls | Client Info | | 298845 | 40000 | 45046 |
| Oil Changed | | Client Info | | Changed | Not Changd | Changed |
| Filter Changed | | Client Info | | Changed | Not Changed | Changed |
| Sample Status | | | | NORMAL | MARGINAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 20 | 9 | 25 |
| Chromium | ppm | ASTM D5185m | >20 | 1 | <1 | 2 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 10 | 6 | 8 |
| Lead | ppm | ASTM D5185m | >40 | 1 | 1 | 8 |
| Copper | ppm | ASTM D5185m | >330 | 1 | 0 | 2 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

There is no indication of any contamination in the oil.

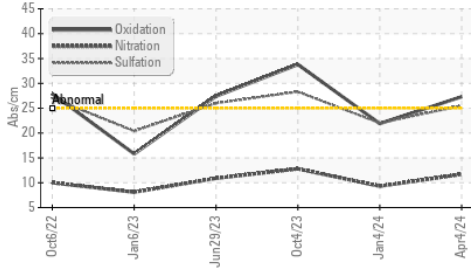
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 9 | 7 | 11 |
| Potassium | ppm | ASTM D5185m | >20 | 13 | 8 | 15 |
| Fuel | | WC Method | >5 | <1.0 | ▲ 2.4 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | 0.4 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.7 | 9.3 | 12.8 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.5 | 22.0 | 28.3 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

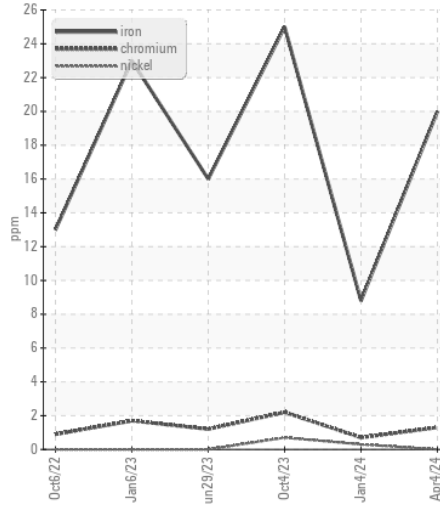
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 1 | 2 | 4 |
| Boron | ppm | ASTM D5185m | 0 | 32 | 55 | 17 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 99 | 87 | 42 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 0 | 618 | 599 | 481 |
| Calcium | ppm | ASTM D5185m | | 1548 | 1352 | 1637 |
| Phosphorus | ppm | ASTM D5185m | | 735 | 755 | 676 |
| Zinc | ppm | ASTM D5185m | | 890 | 878 | 900 |
| Sulfur | ppm | ASTM D5185m | | 2951 | 2747 | 2137 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 27.3 | 21.9 | 33.8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 5.0 | 6.9 | 4.2 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 12.6 | 12.4 | 12.9 |

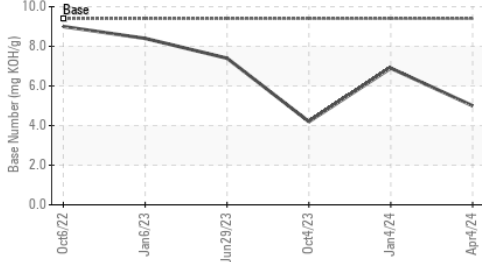
FT-IR (Direct Trend)



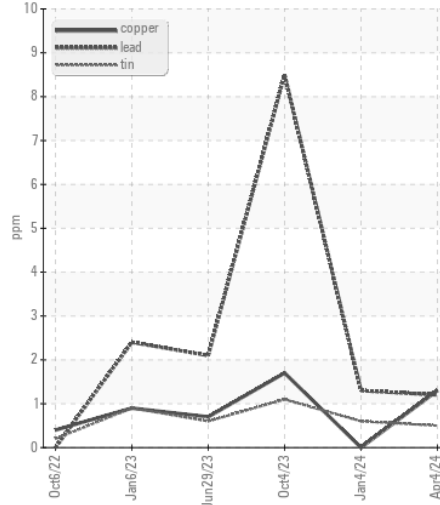
Ferrous Alloys



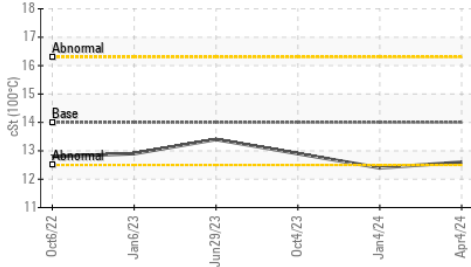
Base Number



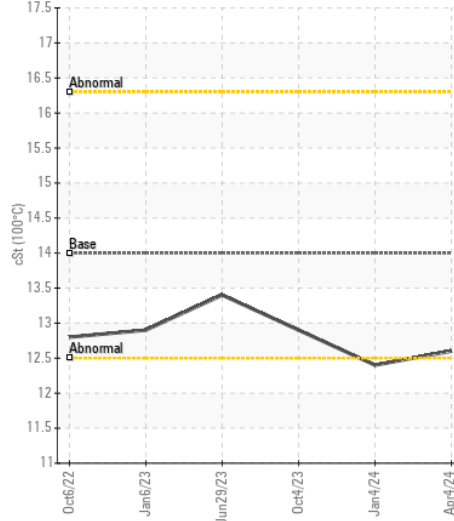
Non-ferrous Metals



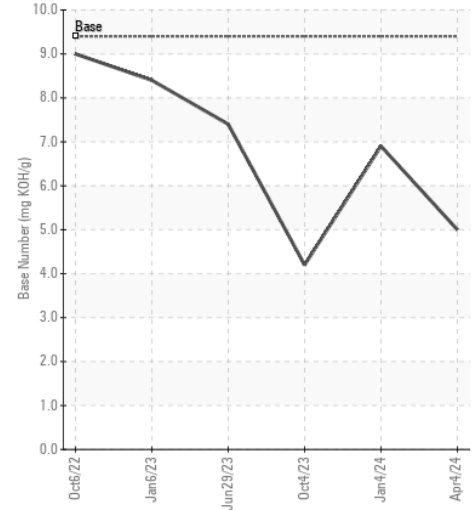
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0018133
Lab Number : 06158785
Unique Number : 10994208
Test Package : FLEET

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 Bloomington, CA
 US 92316
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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)