# OIL ANALYSIS REPORT

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

Machine Id
**8574008**
Component
**Diesel Engine**
Fluid
**MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)**

## RECOMMENDATION

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

## WEAR

All component wear rates are normal.

## CONTAMINATION

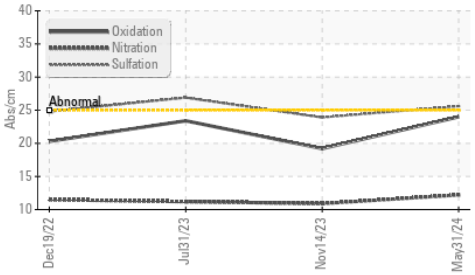
There is no indication of any contamination in the oil.

## FLUID CONDITION

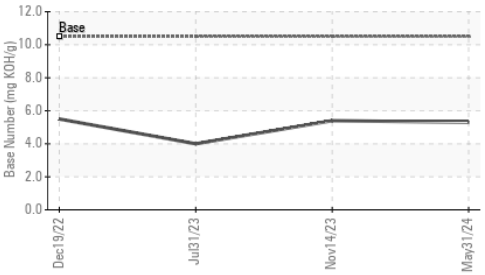
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | RPL0014738 | RPL0010893 | RPL0010176 |
| Sample Date | | Client Info | | 31 May 2024 | 14 Nov 2023 | 31 Jul 2023 |
| Machine Age | mls | Client Info | | 268062 | 239230 | 221555 |
| Oil Age | mls | Client Info | | 28832 | 17675 | 29737 |
| Filter Age | mls | Client Info | | 28832 | 17675 | 29737 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | 34 | 22 | 48 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | <1 | 2 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 7 | 6 | 4 |
| Lead | ppm | ASTM D5185m | >40 | 8 | 3 | 8 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 2 | 4 |
| Tin | ppm | ASTM D5185m | >15 | 1 | 0 | 1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | 10 | 8 | 10 |
| Potassium | ppm | ASTM D5185m | >20 | 10 | 11 | 15 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | 0.5 | 0.7 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 12.2 | 10.9 | 11.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.6 | 23.9 | 26.9 |
| 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 |
| Sodium | ppm | ASTM D5185m | | <1 | 2 | 4 |
| Boron | ppm | ASTM D5185m | | 21 | 19 | 19 |
| Barium | ppm | ASTM D5185m | | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 34 | 6 | 13 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 592 | 717 | 805 |
| Calcium | ppm | ASTM D5185m | | 1607 | 1373 | 1564 |
| Phosphorus | ppm | ASTM D5185m | | 764 | 674 | 756 |
| Zinc | ppm | ASTM D5185m | | 916 | 844 | 908 |
| Sulfur | ppm | ASTM D5185m | | 2683 | 3183 | 3567 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 24.0 | 19.2 | 23.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.5 | 5.3 | 5.4 | 4.0 |
| Visc @ 100°C | cSt | ASTM D445 | 11.9 | 10.7 | 11.3 | 11.1 |

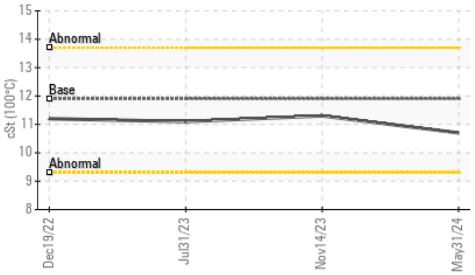
FT-IR (Direct Trend)



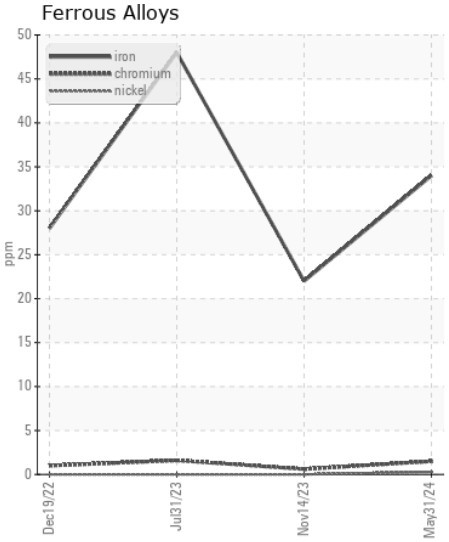

Base Number



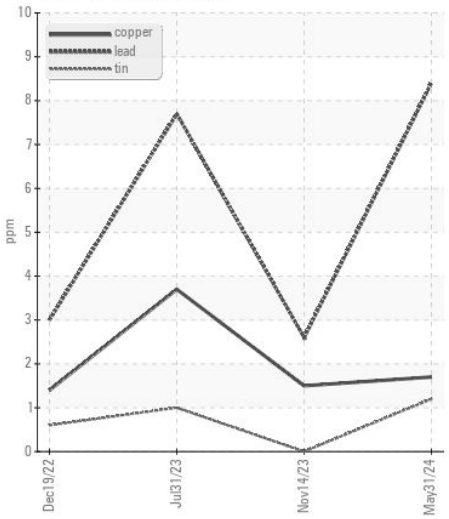

Viscosity @ 100°C



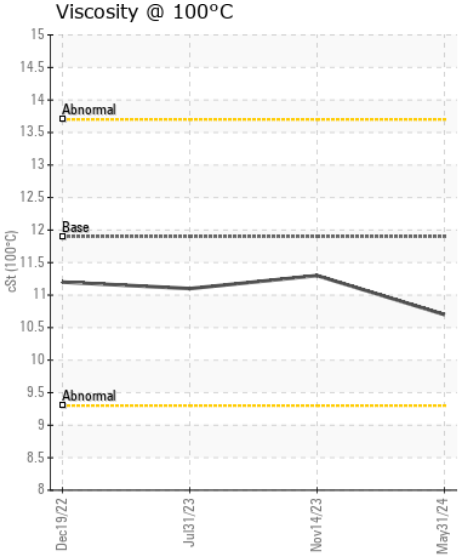

Ferrous Alloys



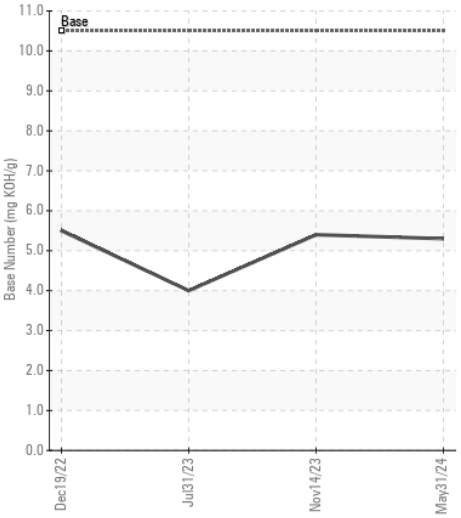

Non-ferrous Metals




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : RPL0014738
**Lab Number** : 06215521
**Unique Number** : 11088385
**Test Package** : FLEET

**Received** : 20 Jun 2024
**Tested** : 21 Jun 2024
**Diagnosed** : 21 Jun 2024 - Wes Davis

*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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