# OIL ANALYSIS REPORT

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

Machine Id
**272-392**
Component
**Diesel Engine**
Fluid
**MOBIL DELVAC 1300 SUPER15W40 (--- QTS)**

## 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

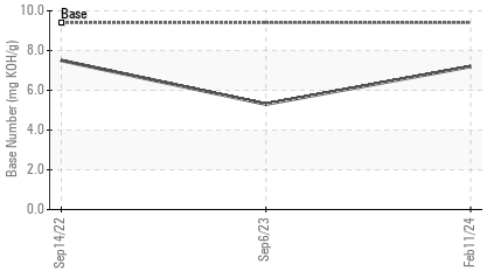
There is no indication of any contamination in the oil.

## FLUID CONDITION

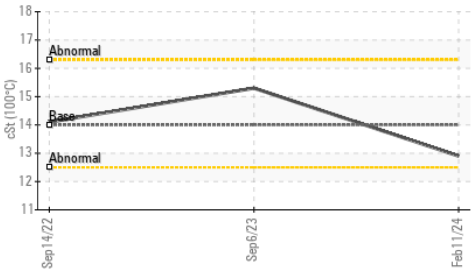
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **RPL0017340** | RPL0012515 | RPL0005874 |
| Sample Date | | Client Info | | **11 Feb 2024** | 06 Sep 2023 | 14 Sep 2022 |
| Machine Age | mls | Client Info | | **361999** | 338270 | 289797 |
| Oil Age | mls | Client Info | | **60000** | 50000 | 25000 |
| Filter Age | mls | Client Info | | **60000** | 50000 | 25000 |
| Oil Changed | | Client Info | | **Changed** | Changed | Changed |
| Filter Changed | | Client Info | | **Changed** | Changed | Changed |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | **32** | 63 | 47 |
| Chromium | ppm | ASTM D5185m | >20 | **2** | 3 | 2 |
| Nickel | ppm | ASTM D5185m | >4 | **<1** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | **0** | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | **3** | 6 | 6 |
| Lead | ppm | ASTM D5185m | >40 | **3** | 9 | 5 |
| Copper | ppm | ASTM D5185m | >330 | **1** | 2 | 1 |
| Tin | ppm | ASTM D5185m | >15 | **<1** | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | <1 |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | **8** | 8 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | **3** | 4 | 7 |
| 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 | **0.8** | 1.1 | 0.6 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | **11.3** | 13.2 | 12.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | **23.6** | 28.9 | 26.1 |
| 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** | <1 | 1 |
| Boron | ppm | ASTM D5185m | 0 | **5** | 2 | 29 |
| Barium | ppm | ASTM D5185m | 0 | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | **65** | 66 | 27 |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | **973** | 992 | 710 |
| Calcium | ppm | ASTM D5185m | | **1166** | 1245 | 1559 |
| Phosphorus | ppm | ASTM D5185m | | **1027** | 1098 | 852 |
| Zinc | ppm | ASTM D5185m | | **1280** | 1316 | 996 |
| Sulfur | ppm | ASTM D5185m | | **3093** | 2900 | 3594 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | **20.8** | 28.2 | 22.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | **7.2** | 5.3 | 7.5 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | **12.9** | 15.3 | 14.1 |

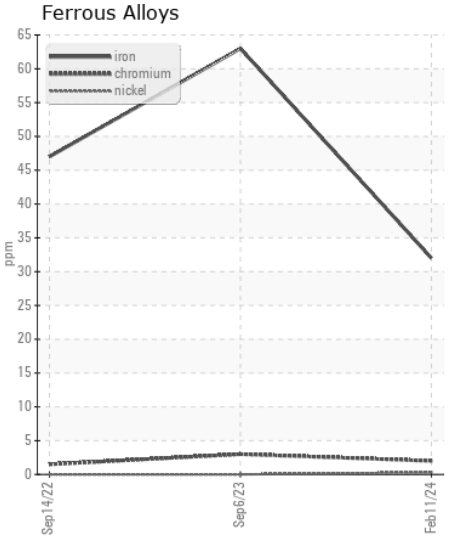
Base Number



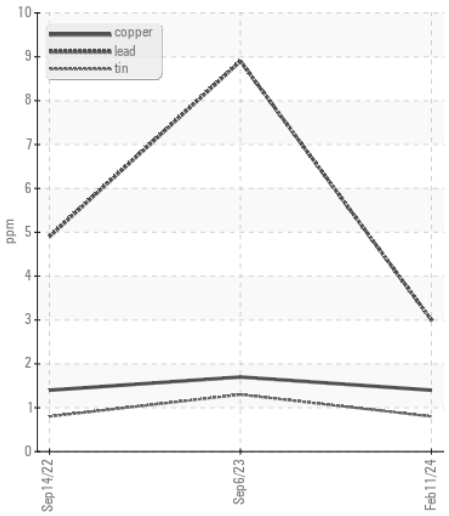

Viscosity @ 100°C



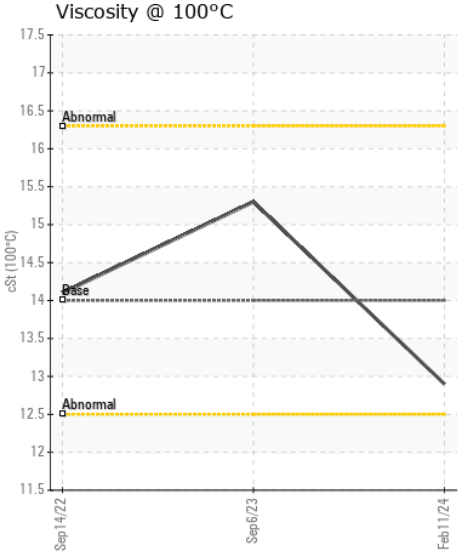

Ferrous Alloys



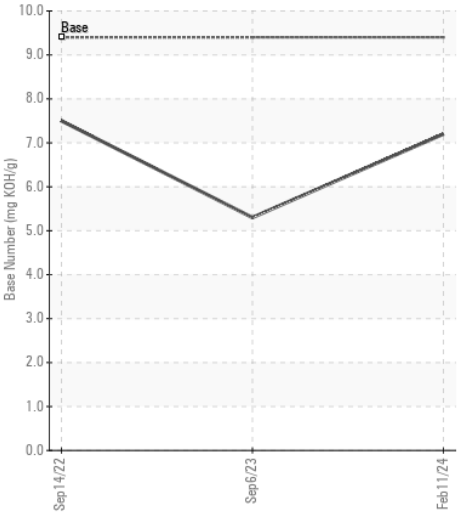

Non-ferrous Metals




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : RPL0017340
**Lab Number** : 06122196
**Unique Number** : 10936347
**Test Package** : FLEET

**Received** : 19 Mar 2024
**Tested** : 20 Mar 2024
**Diagnosed** : 20 Mar 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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