# OIL ANALYSIS REPORT

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

Machine Id
**914189**
Component
**Diesel Engine**
Fluid
**VALVOLINE PREMIUM BLUE 2000 15W40 (--- 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

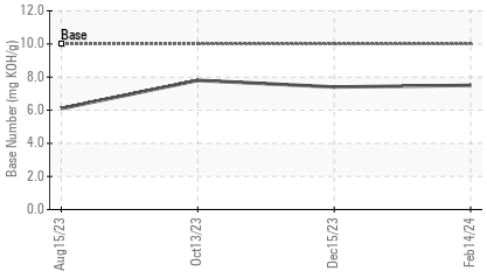
There is no indication of any contamination in the oil.

## FLUID CONDITION

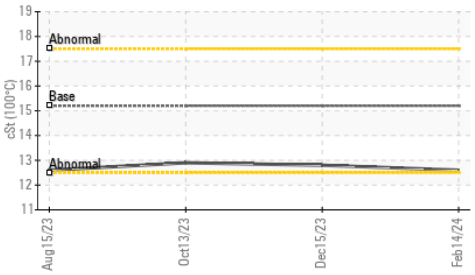
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0811874** | WC0863935 | WC0811865 |
| Sample Date | | Client Info | | **14 Feb 2024** | 15 Dec 2023 | 13 Oct 2023 |
| Machine Age | mls | Client Info | | **0** | 0 | 0 |
| Oil Age | mls | Client Info | | **15000** | 15000 | 15000 |
| Filter Age | mls | Client Info | | **0** | 0 | 0 |
| Oil Changed | | Client Info | | **Changed** | N/A | N/A |
| Filter Changed | | Client Info | | **Changed** | N/A | N/A |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | **14** | 0 | 6 |
| Chromium | ppm | ASTM D5185m | >20 | **<1** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | **0** | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | **5** | 2 | 3 |
| Lead | ppm | ASTM D5185m | >40 | **0** | <1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | **<1** | 0 | <1 |
| Tin | ppm | ASTM D5185m | >15 | **0** | 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** | 4 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | **4** | <1 | 3 |
| 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 | **0.2** | 0.2 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | **9.7** | 9.2 | 8.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | **19.4** | 19.6 | 18.9 |
| 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 | | **4** | <1 | 3 |
| Boron | ppm | ASTM D5185m | | **27** | 25 | 24 |
| Barium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **67** | 63 | 64 |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | **817** | 750 | 690 |
| Calcium | ppm | ASTM D5185m | | **1316** | 1236 | 1207 |
| Phosphorus | ppm | ASTM D5185m | | **833** | 732 | 745 |
| Zinc | ppm | ASTM D5185m | | **951** | 892 | 872 |
| Sulfur | ppm | ASTM D5185m | | **2562** | 2292 | 2815 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | **17.8** | 17.4 | 16.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.0 | **7.5** | 7.4 | 7.8 |
| Visc @ 100°C | cSt | ASTM D445 | 15.2 | **12.6** | 12.8 | 12.9 |

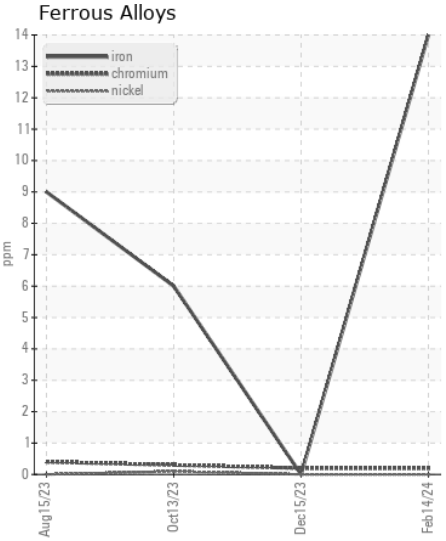
Base Number



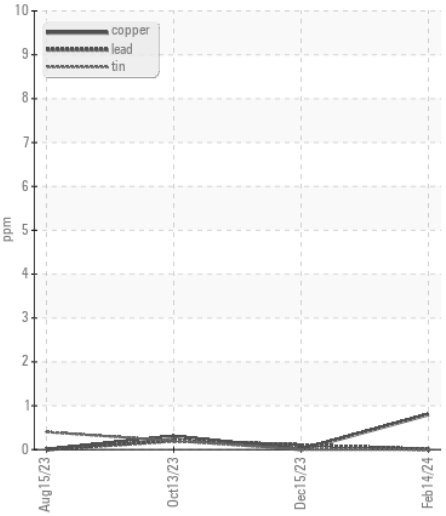

Viscosity @ 100°C



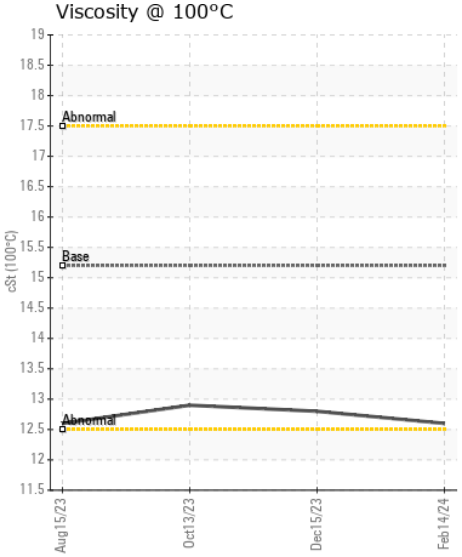

Ferrous Alloys



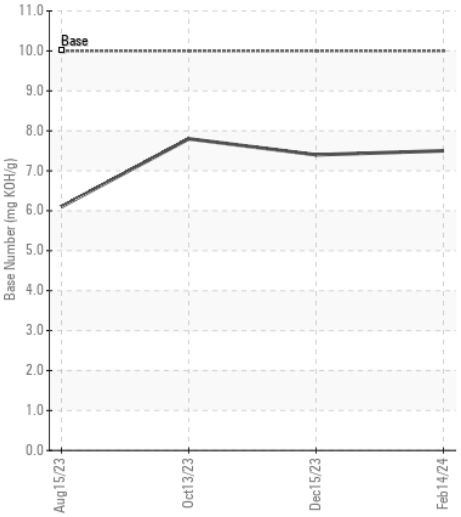

Non-ferrous Metals




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0811874
**Lab Number** : 06103537
**Unique Number** : 10901767
**Test Package** : FLEET

**Received** : 28 Feb 2024
**Tested** : 01 Mar 2024
**Diagnosed** : 01 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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