IDEALEASE FLEET

# OIL ANALYSIS REPORT

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

Machine Id
## INTERNATIONAL 7027367
Component
## Diesel Engine
Fluid
## VALVOLINE 15W40 (--- GAL)

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

## WEAR

All component wear rates are normal.

## CONTAMINATION

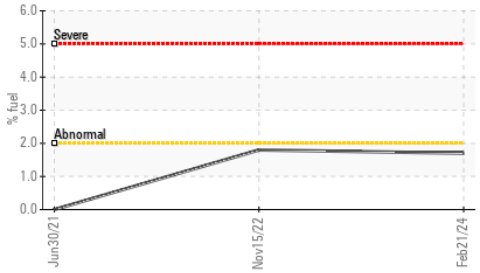
Light fuel dilution occurring. No other contaminants were detected in the oil.

## FLUID CONDITION

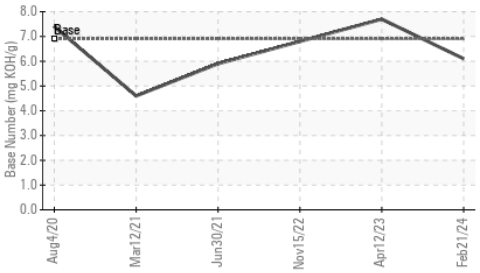
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **IL0028422** | IL05828609 | IL05701251 |
| Sample Date | | Client Info | | **21 Feb 2024** | 12 Apr 2023 | 15 Nov 2022 |
| Machine Age | mls | Client Info | | **169776** | 160545 | 149275 |
| Oil Age | mls | Client Info | | **0** | 0 | 0 |
| 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 | ATTENTION |
| Iron | ppm | ASTM D5185m | >100 | **52** | 38 | 20 |
| Chromium | ppm | ASTM D5185m | >20 | **2** | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >4 | **<1** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | **5** | 2 | 3 |
| Lead | ppm | ASTM D5185m | >40 | **<1** | <1 | 5 |
| Copper | ppm | ASTM D5185m | >330 | **<1** | <1 | <1 |
| Tin | ppm | ASTM D5185m | >15 | **<1** | <1 | 2 |
| Vanadium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | **8** | 5 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | **3** | 4 | <1 |
| Fuel | % | ASTM D3524 | >2.0 | **1.7** | <1.0 | 1.8 |
| Water | | WC Method | >0.2 | **NEG** | NEG | NEG |
| Glycol | | WC Method | | **NEG** | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | **0.2** | 0.2 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | **8.1** | 9.9 | 12.4 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | **21.0** | 20.6 | 25.1 |
| 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 | | **2** | 2 | 3 |
| Boron | ppm | ASTM D5185m | 39 | **211** | 61 | 29 |
| Barium | ppm | ASTM D5185m | 1 | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 49 | **85** | 60 | 60 |
| Manganese | ppm | ASTM D5185m | 1 | **1** | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 616 | **483** | 719 | 737 |
| Calcium | ppm | ASTM D5185m | 1554 | **1289** | 1187 | 1236 |
| Phosphorus | ppm | ASTM D5185m | 899 | **912** | 747 | 710 |
| Zinc | ppm | ASTM D5185m | 1069 | **1195** | 929 | 904 |
| Sulfur | ppm | ASTM D5185m | 2624 | **3114** | 2453 | 2787 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | **16.8** | 18.6 | 23.2 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 6.9 | **6.1** | 7.7 | 6.8 |
| Visc @ 100°C | cSt | ASTM D445 | 13.6 | **12.3** | 13.0 | 12.1 |

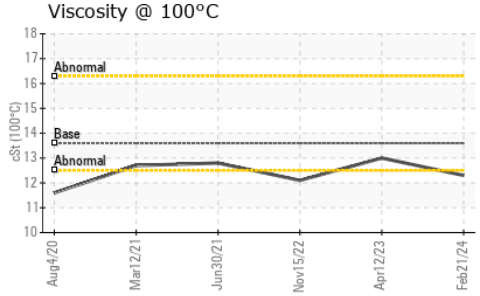
Fuel Dilution



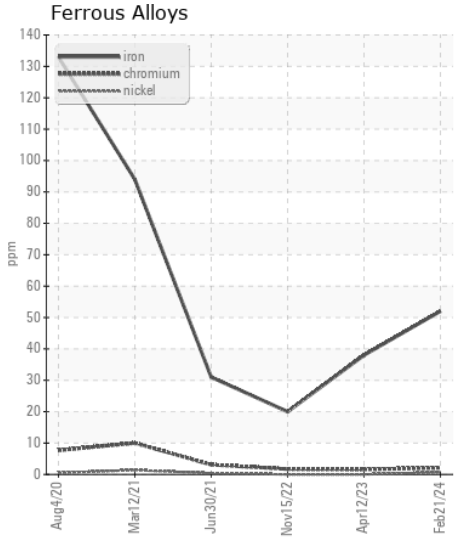

Base Number



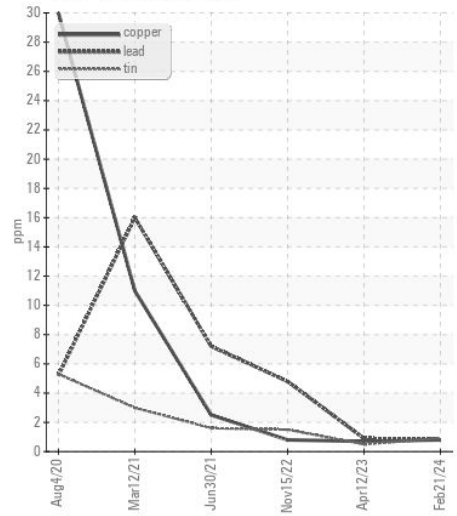

Viscosity @ 100°C



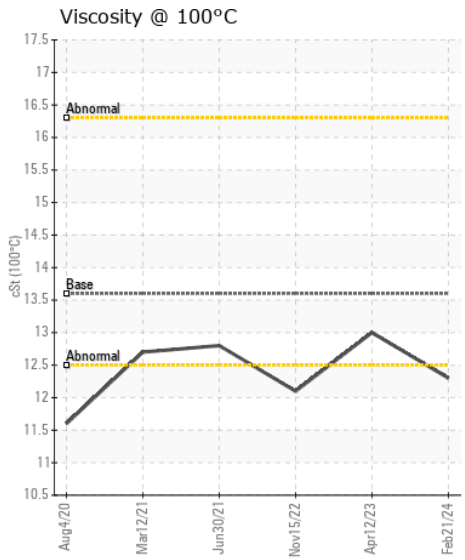

Ferrous Alloys



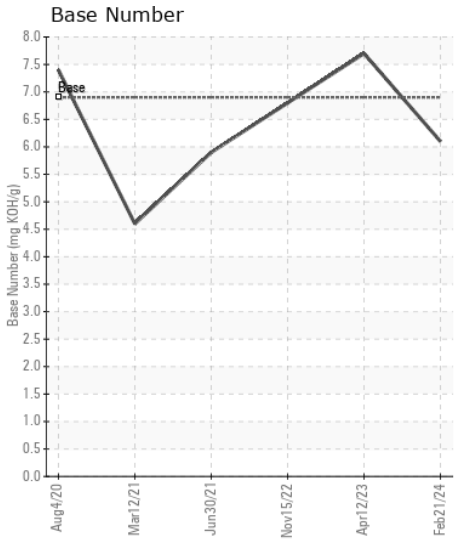

Non-ferrous Metals




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : IL0028422 **Received** : 29 Feb 2024
**Lab Number** : 06104081 **Tested** : 04 Mar 2024
**Unique Number** : 10902311 **Diagnosed** : 04 Mar 2024 - Wes Davis
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

*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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