IDEALEASE FLEET

# OIL ANALYSIS REPORT

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

Machine Id
**8968**
Component
**Diesel Engine**
Fluid
**{not provided} (--- QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## WEAR

The aluminum level is abnormal. All other component wear rates are normal.

## CONTAMINATION

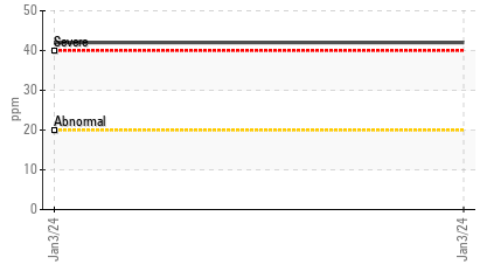
There is no indication of any contamination in the oil.

## FLUID CONDITION

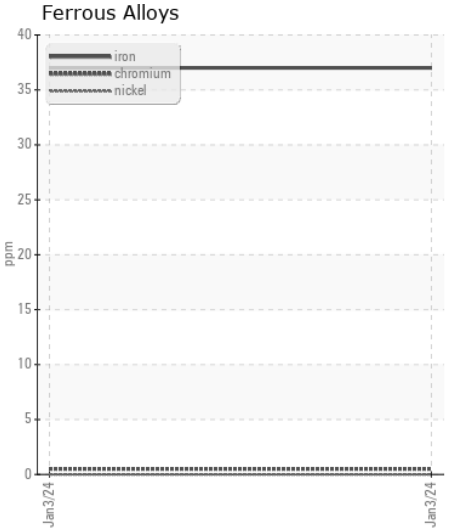
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | IL06149994 | --- | --- |
| Sample Date | | Client Info | | 03 Jan 2024 | --- | --- |
| Machine Age | mls | Client Info | | 0 | --- | --- |
| Oil Age | mls | Client Info | | 0 | --- | --- |
| Filter Age | mls | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | N/A | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| Iron | ppm | ASTM D5185m | >100 | 37 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | ▲ 42 | --- | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >330 | 1 | --- | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >25 | 11 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Fuel | % | ASTM D3524 | >5 | <1.0 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 1.4 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.5 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.7 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185m | | 2 | --- | --- |
| Boron | ppm | ASTM D5185m | | 77 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 64 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 542 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1697 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 854 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 940 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 2914 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.8 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 12.6 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 10.9 | --- | --- |

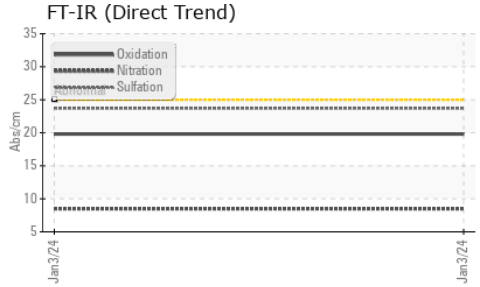
Aluminum (ppm)



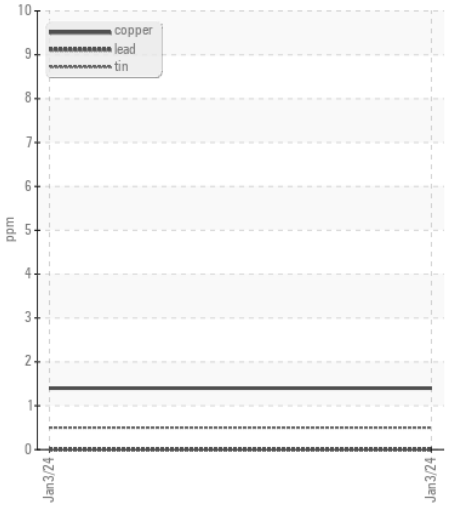

Ferrous Alloys



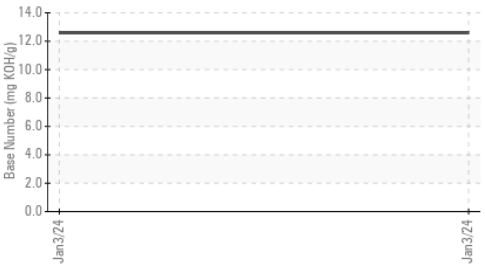

FT-IR (Direct Trend)



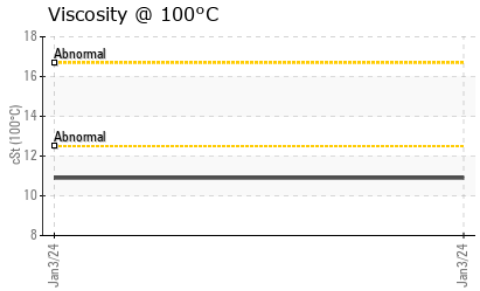

Non-ferrous Metals



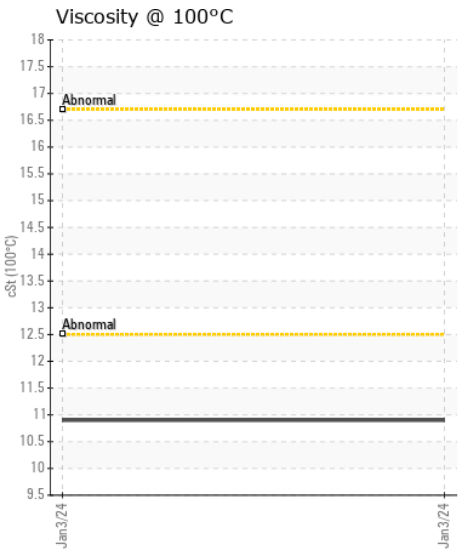

Base Number



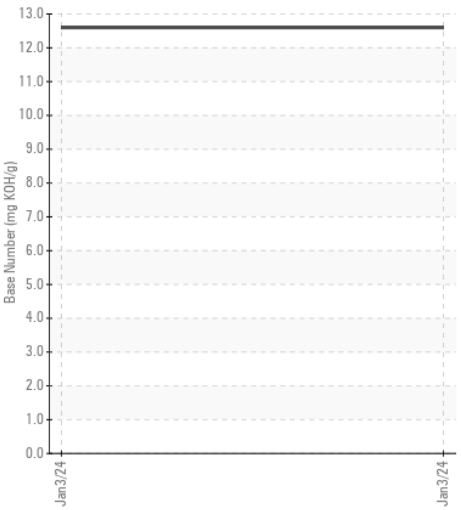

Viscosity @ 100°C




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : IL06149994 **Received** : 16 Apr 2024
**Lab Number** : 06149994 **Tested** : 17 Apr 2024
**Unique Number** : 10980072 **Diagnosed** : 18 Apr 2024 - Sean Felton
**Test Package** : FLEET ( Additional Tests: FuelDilution )

*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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