FLEET LUBE 360 OIL DIAGNOSTICS

# OIL ANALYSIS REPORT

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

Machine Id
**934033**
Component
**Natural Gas Engine**
Fluid
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## WEAR

Metal levels are typical for a components first oil change.

## CONTAMINATION

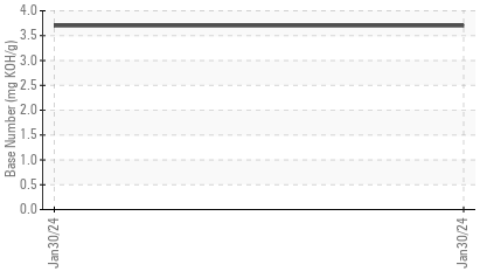
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

## FLUID CONDITION

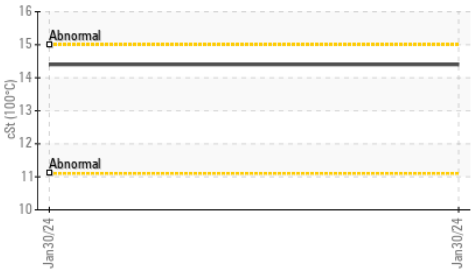
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | GFL0108300 | --- | --- |
| Sample Date | | Client Info | | 30 Jan 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 449 | --- | --- |
| Oil Age | hrs | Client Info | | 449 | --- | --- |
| Filter Age | hrs | Client Info | | 449 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |
| Iron | ppm | ASTM D5185m | >50 | 46 | --- | --- |
| Chromium | ppm | ASTM D5185m | >4 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >2 | 1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >9 | 17 | --- | --- |
| Lead | ppm | ASTM D5185m | >30 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m | >35 | 20 | --- | --- |
| Tin | ppm | ASTM D5185m | >4 | 1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >+100 | 33 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 43 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | | 0 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 12.3 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.4 | --- | --- |
| 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 | >0.1 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185m | | <1 | --- | --- |
| Boron | ppm | ASTM D5185m | | 6 | --- | --- |
| Barium | ppm | ASTM D5185m | | 3 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 58 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 10 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 741 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1193 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 653 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 908 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 2249 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.7 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 3.7 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 14.4 | --- | --- |

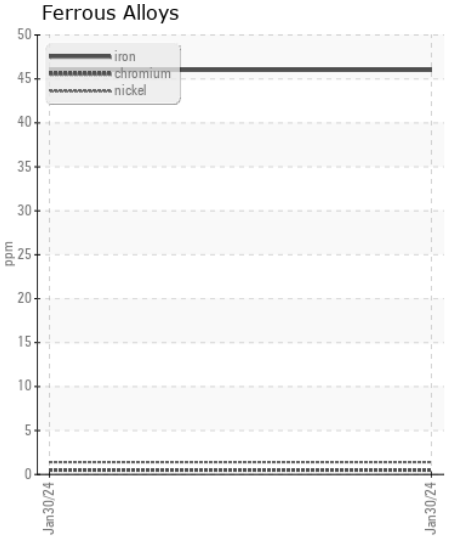
Base Number



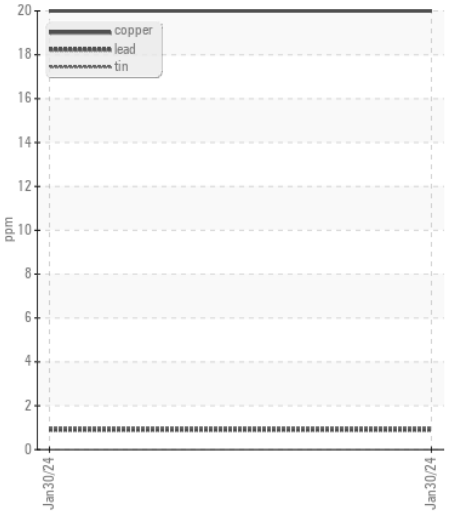

Viscosity @ 100°C



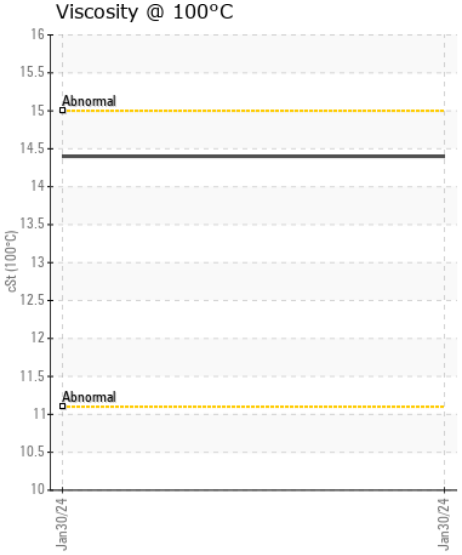

Ferrous Alloys



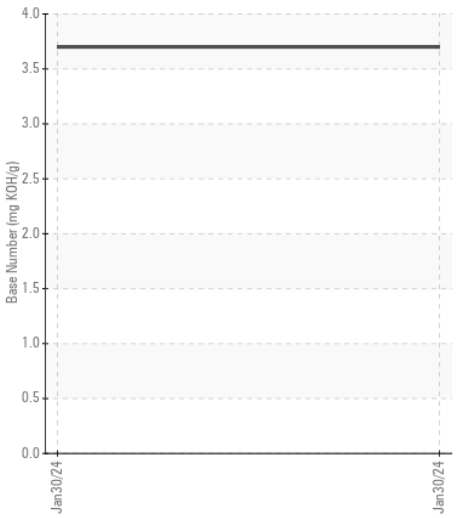

Non-ferrous Metals




Viscosity @ 100°C




Base Number





**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : GFL0108300
**Lab Number** : 06077583
**Unique Number** : 10859674
**Test Package** : FLEET

**Received** : 01 Feb 2024
**Tested** : 02 Feb 2024
**Diagnosed** : 02 Feb 2024 - Wes Davis

Certificate L2367

**GFL Environmental - 652 - Fredericksburg Hauling**
10954 Houser Drive
Fredericksburg, VA
US 22408
Contact: WILLIAM MILO
wmilo@gflenv.com
T:
F:


*To discuss this sample report, contact Customer Service at 1-800-237-1369.*
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*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*