MOB WEAR CHECK

# OIL ANALYSIS REPORT

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

Machine Id
## CAT G2E00116 (S/N YATT00414)
Component
## Diesel Engine
Fluid
## APRIL SUPERFLO GOLD K 15W40 (430 LTR)

## RECOMMENDATION

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

## WEAR

Metal levels are typical for a new component breaking in. Component wear rates appear to be normal (unconfirmed).

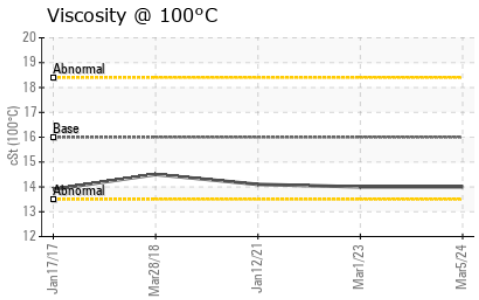
## CONTAMINATION

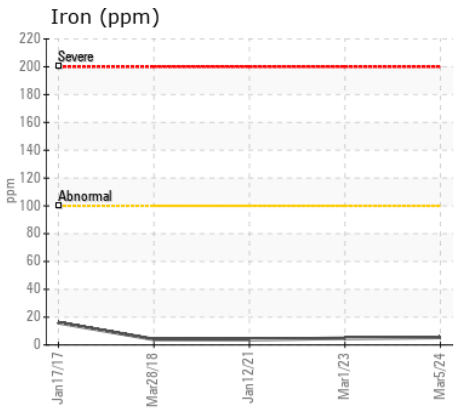
There is no indication of any contamination in the oil.

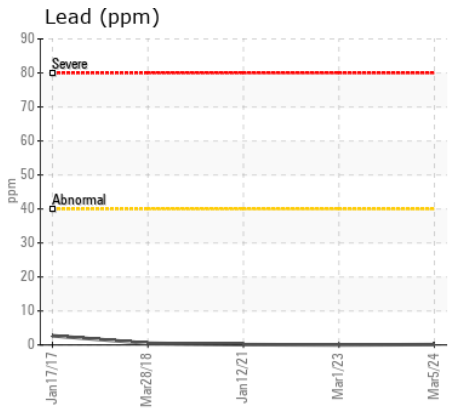
## FLUID CONDITION

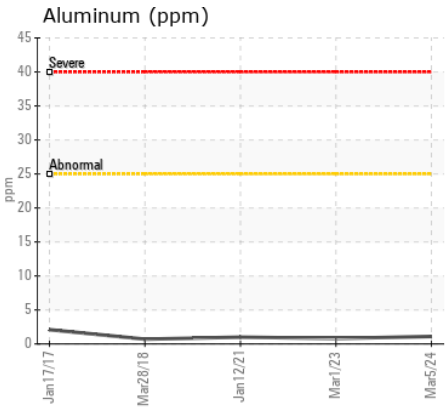
The condition of the oil is acceptable for the time in service (unconfirmed).

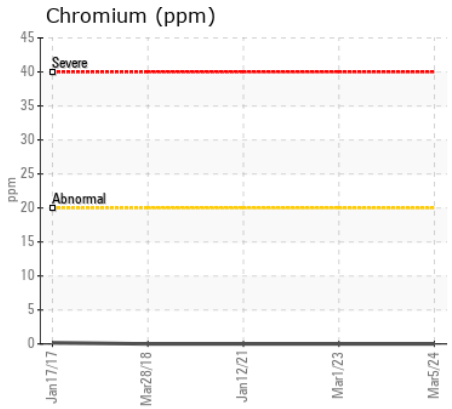
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0841629** | WC0767430 | WC0498316 |
| Sample Date | | Client Info | | **05 Mar 2024** | 01 Mar 2023 | 12 Jan 2021 |
| Machine Age | hrs | Client Info | | **234** | 221 | 193 |
| Oil Age | hrs | Client Info | | **16** | 28 | 37 |
| Filter Age | hrs | Client Info | | **16** | 28 | 37 |
| Oil Changed | | Client Info | | **Not Changd** | Not Changd | Not Changd |
| Filter Changed | | Client Info | | **Not Changd** | Not Changd | Changed |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185(m) | >100 | **5** | 5 | 4 |
| Chromium | ppm | ASTM D5185(m) | >20 | **0** | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | >2 | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >25 | **1** | <1 | 1 |
| Lead | ppm | ASTM D5185(m) | >40 | **<1** | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >330 | **2** | 2 | 1 |
| Tin | ppm | ASTM D5185(m) | >15 | **0** | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | **0** | 0 | 0 |
| Silicon | ppm | ASTM D5185(m) | >25 | **2** | 3 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | **2** | 1 | <1 |
| 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** | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | **5.7** | 5.9 | 5.2 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | **18.0** | 20.0 | 18.1 |
| Emulsified Water | scalar | Visual* | >0.2 | **NEG** | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | | **2** | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | 34 | **19** | 20 | 21 |
| Barium | ppm | ASTM D5185(m) | 0 | **0** | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 70 | **55** | 53 | 52 |
| Manganese | ppm | ASTM D5185(m) | | **0** | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 640 | **869** | 882 | 839 |
| Calcium | ppm | ASTM D5185(m) | 1410 | **1177** | 1222 | 1190 |
| Phosphorus | ppm | ASTM D5185(m) | 1020 | **1047** | 1110 | 1021 |
| Zinc | ppm | ASTM D5185(m) | 1170 | **1168** | 1179 | 1234 |
| Sulfur | ppm | ASTM D5185(m) | 2930 | **2875** | 2840 | 2869 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | **14.0** | 14.4 | 13.9 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 16.0 | **14.0** | 14.0 | 14.1 |

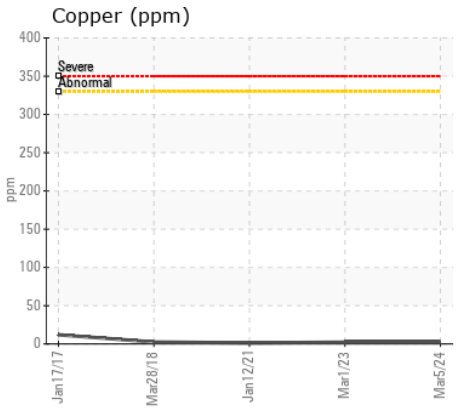


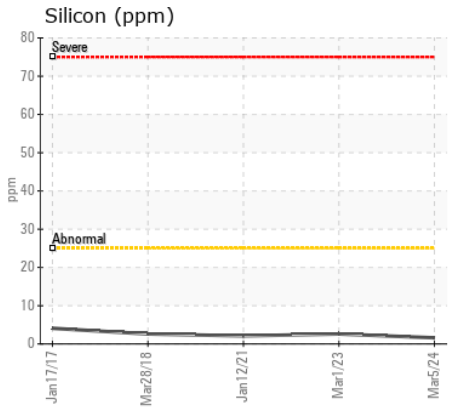



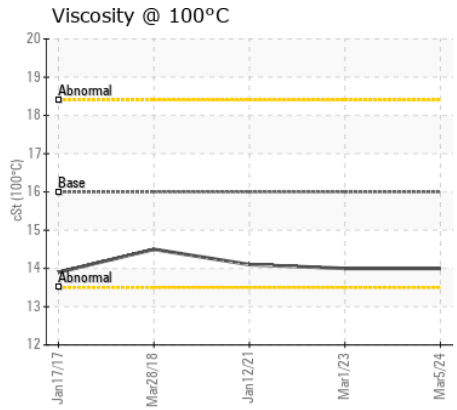



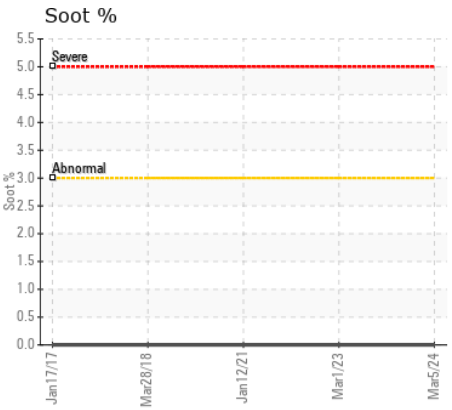




ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : WC0841629
**Lab Number** : 02620782
**Unique Number** : 5737892
**Test Package** : MOB 1

**Received** : 08 Mar 2024
**Tested** : 08 Mar 2024
**Diagnosed** : 08 Mar 2024 - Wes Davis

*To discuss this sample report, contact Customer Service at 1-800-268-2131.*
*Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*
*Validity of results and interpretation are based on the sample and information as supplied.*

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