



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

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

Area
CHARTWELL-LAKESHORE 5314 LAKESHORE RD [252283]

Machine Id
RG6081A039627

Component
Diesel Engine

Fluid
CASTROL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WA0020908 | WA0018971 | WA0017337 |
| Sample Date | | Client Info | | 12 Feb 2024 | 03 Feb 2023 | 26 Jan 2022 |
| Machine Age | hrs | Client Info | | 497 | 475 | 448 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Filter Changed | | Client Info | | N/A | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|----------|-----|---------------|-----|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >51 | 2 | 2 | 2 |
| Chromium | ppm | ASTM D5185(m) | >11 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >31 | 1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >26 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >26 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

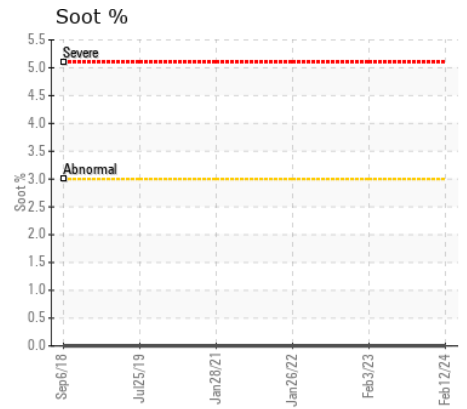
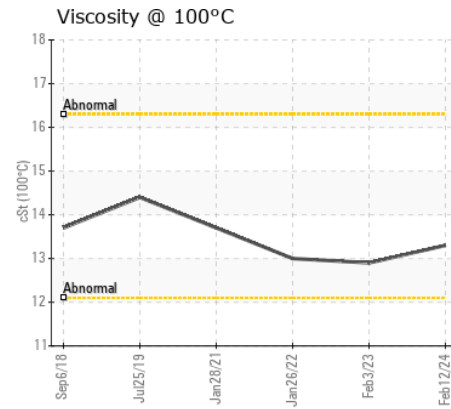
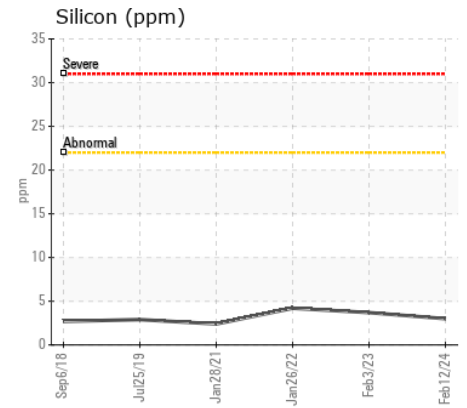
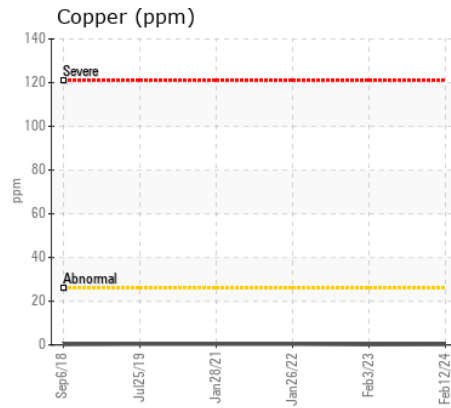
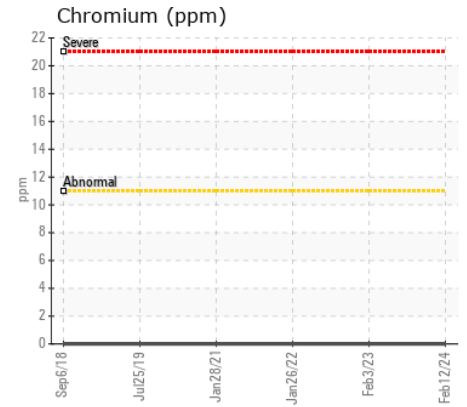
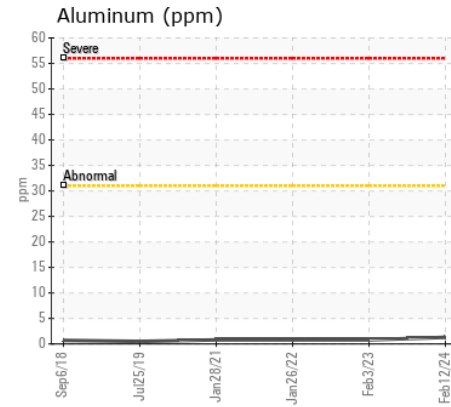
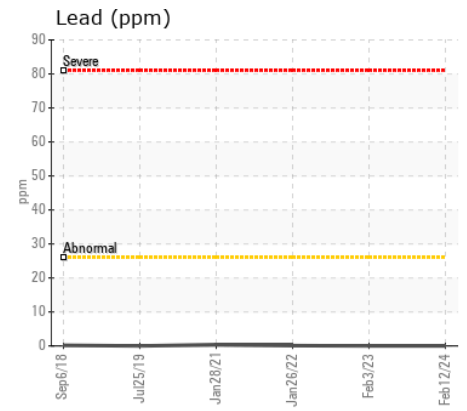
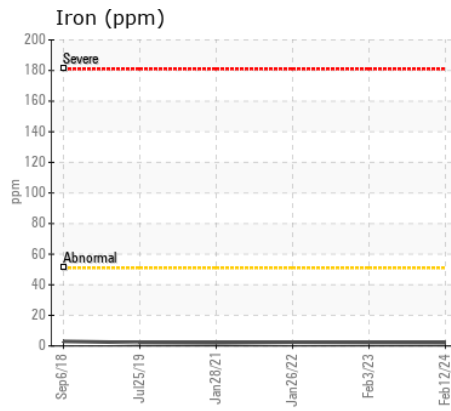
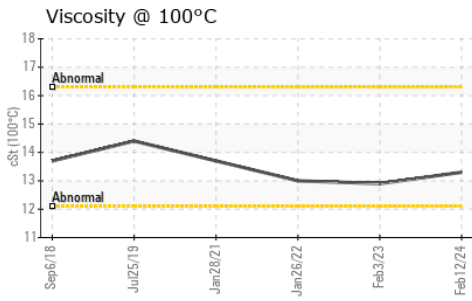
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|-------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >22 | 3 | 4 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 0 | 1 |
| Fuel | | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 5.2 | 5.4 | 5.6 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 15.7 | 19.1 | 17.3 |
| Emulsified Water | scalar | Visual* | >0.21 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | >406 | 1 | 1 | 1 |
| Boron | ppm | ASTM D5185(m) | | 2 | 2 | 4 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 6 | 36 | 9 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 96 | 593 | 143 |
| Calcium | ppm | ASTM D5185(m) | | 2172 | 1606 | 2065 |
| Phosphorus | ppm | ASTM D5185(m) | | 913 | 1063 | 960 |
| Zinc | ppm | ASTM D5185(m) | | 1000 | 1121 | 1046 |
| Sulfur | ppm | ASTM D5185(m) | | 3173 | 2943 | 3040 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 9.3 | 12.2 | 10.1 |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 13.3 | 12.9 | 13.0 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020908
Lab Number : 02616904
Unique Number : 5734014
Test Package : MOB 1
Received : 21 Feb 2024
Tested : 21 Feb 2024
Diagnosed : 21 Feb 2024 - Wes Davis

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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.