



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

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

Area
TTR [275720]
Machine Id
68016032
Component
Diesel Engine
Fluid
CASTROL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WA0020692 | WA0019552 | WA0017880 |
| Sample Date | | Client Info | | 08 May 2024 | 03 May 2023 | 06 Apr 2022 |
| Machine Age | hrs | Client Info | | 864 | 822 | 766 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >100 | 2 | 3 | 6 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 1 | 1 | 3 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 1 | 2 |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | <1 | 1 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

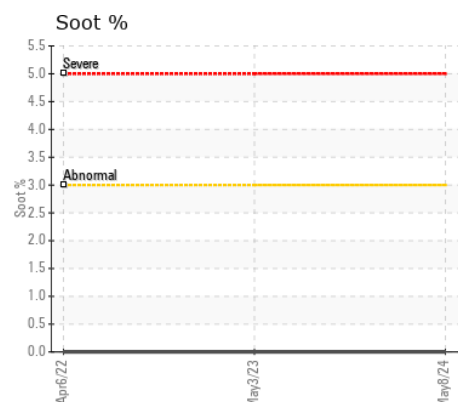
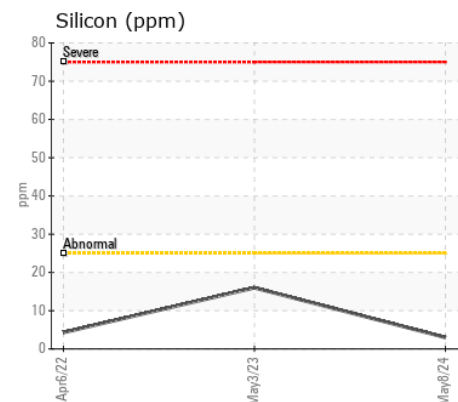
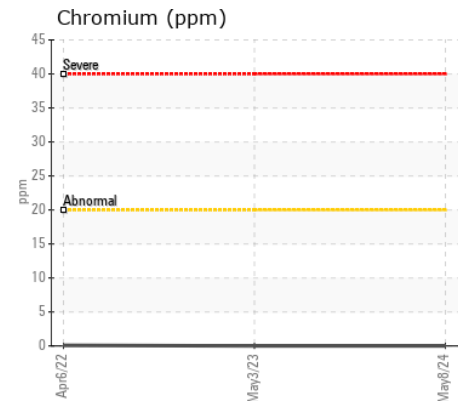
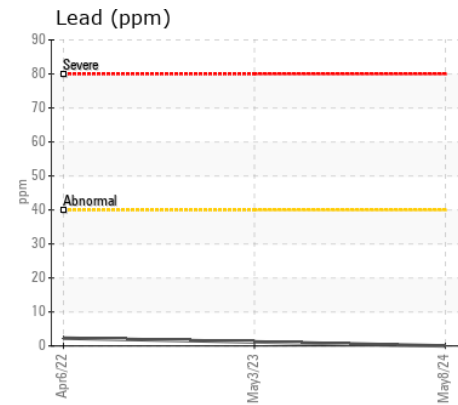
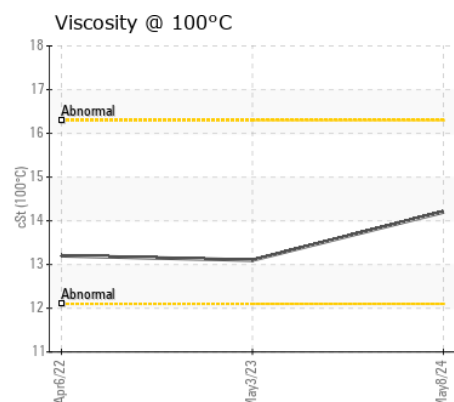
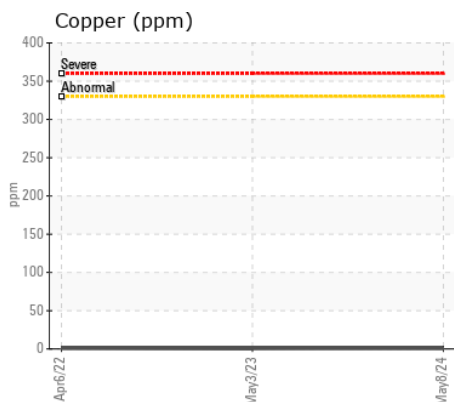
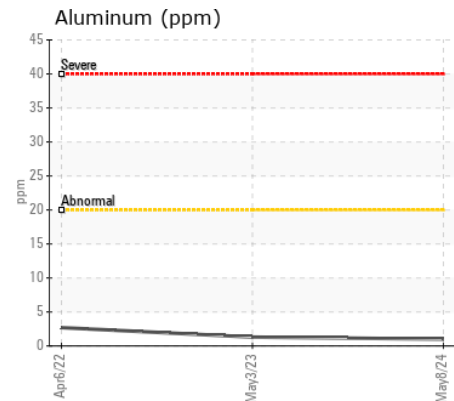
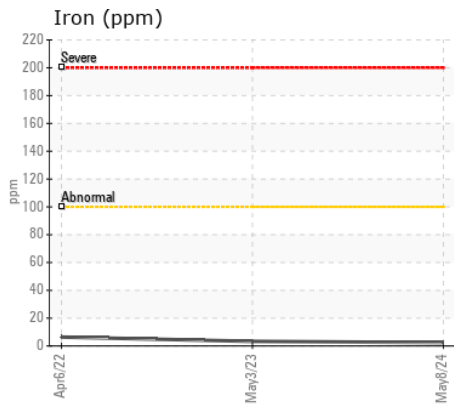
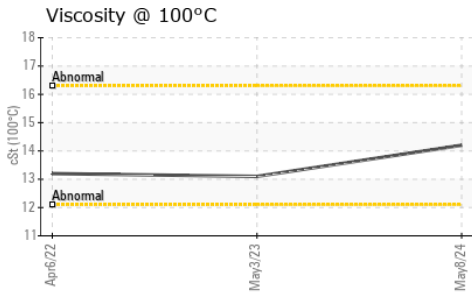
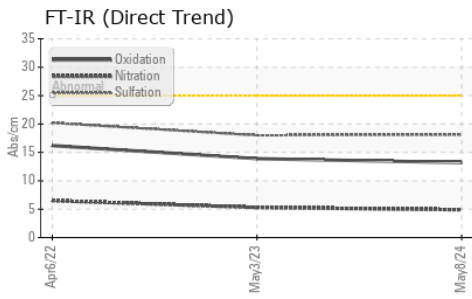
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 3 | 16 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <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 | 4.9 | 5.3 | 6.5 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.1 | 18.0 | 20.2 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | >406 | 1 | 2 | 4 |
| Boron | ppm | ASTM D5185(m) | | 5 | 8 | 49 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 52 | 51 | <1 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 826 | 855 | 9 |
| Calcium | ppm | ASTM D5185(m) | | 1050 | 1243 | 2176 |
| Phosphorus | ppm | ASTM D5185(m) | | 936 | 1098 | 992 |
| Zinc | ppm | ASTM D5185(m) | | 1084 | 1176 | 1091 |
| Sulfur | ppm | ASTM D5185(m) | | 2480 | 2858 | 3346 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 13.2 | 13.9 | 16.2 |
| Visc @ 100°C | cSt | ASTM D7279(m) | | 14.2 | 13.1 | 13.2 |



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020692
Lab Number : 02635994
Unique Number : 5785156
Test Package : MOB 1
Received : 16 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 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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