



OIL ANALYSIS REPORT

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

Machine Id
51935
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 10W30 (--- LTR)

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 | | WC0915504 | WC0879077 | WC0854785 |
| Sample Date | | Client Info | | 10 Apr 2024 | 13 Dec 2023 | 30 Oct 2023 |
| Machine Age | mls | Client Info | | 359859 | 297080 | 31699 |
| Oil Age | mls | Client Info | | 30341 | 26729 | 31699 |
| Filter Age | mls | Client Info | | 30341 | 26729 | 31699 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >100 | 23 | 21 | 22 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 4 | 6 | 5 |
| Lead | ppm | ASTM D5185(m) | >40 | 1 | 1 | 2 |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | 2 | 2 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

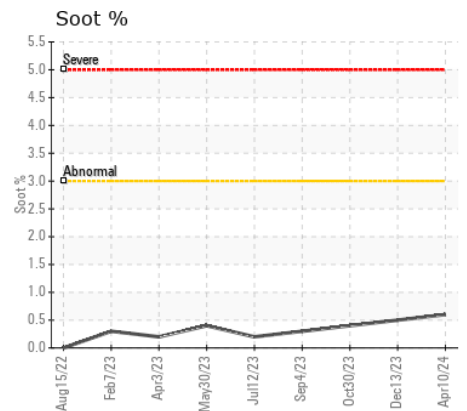
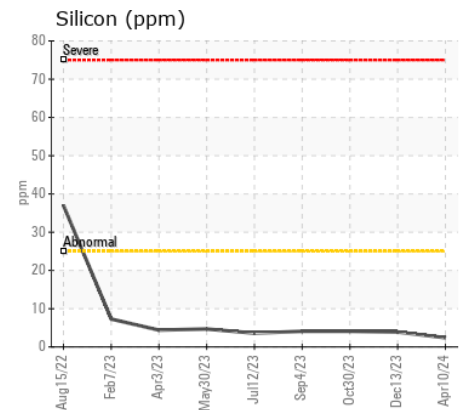
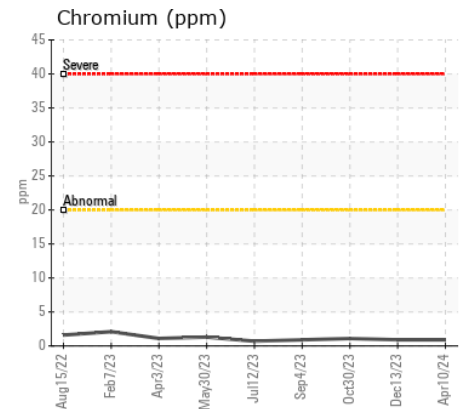
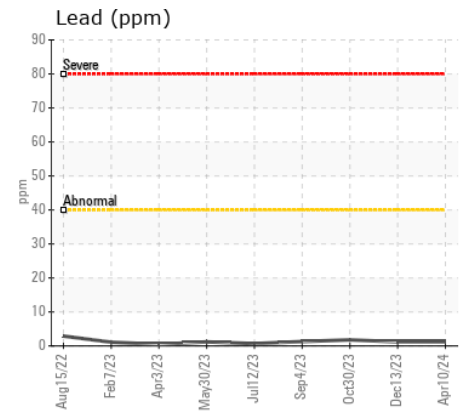
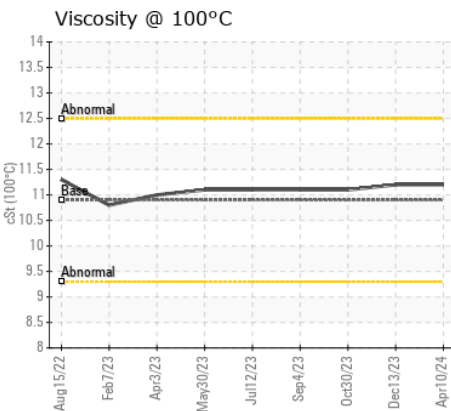
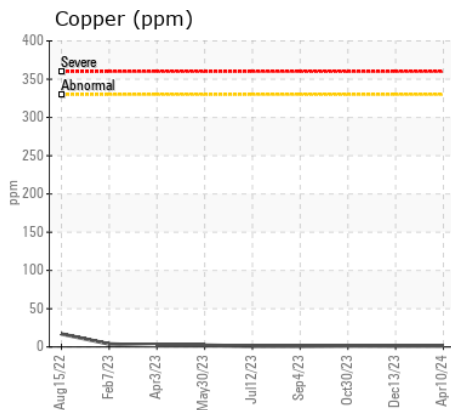
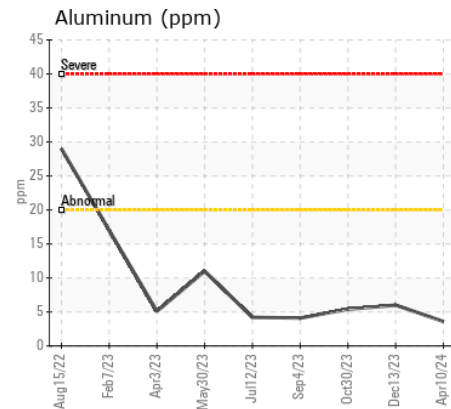
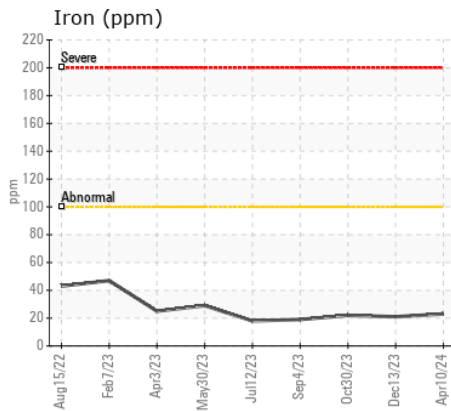
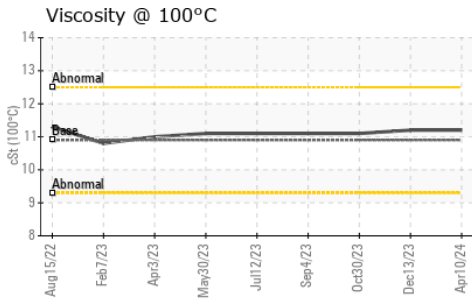
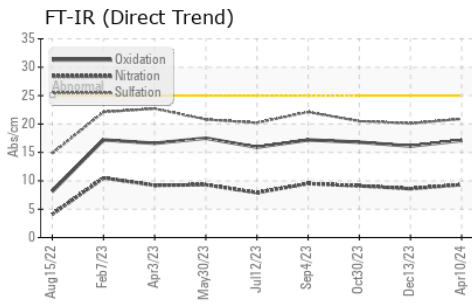
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 2 | 4 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 2 | 8 | 8 |
| 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 | 0.6 | 0.5 | 0.4 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 9.3 | 8.6 | 9.1 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.9 | 20.1 | 20.5 |
| 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) | | 2 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | 250 | 5 | 4 | 6 |
| Barium | ppm | ASTM D5185(m) | 10 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 100 | 63 | 62 | 66 |
| Manganese | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 450 | 1018 | 997 | 1047 |
| Calcium | ppm | ASTM D5185(m) | 3000 | 1114 | 1106 | 1165 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 1001 | 1028 | 1043 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1253 | 1216 | 1296 |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 2317 | 2541 | 2500 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 17.1 | 16.1 | 16.8 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 10.9 | 11.2 | 11.2 | 11.1 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0915504 **Received** : 30 Apr 2024
Lab Number : 02632268 **Tested** : 30 Apr 2024
Unique Number : 5773421 **Diagnosed** : 30 Apr 2024 - Wes Davis
Test Package : MOB 1

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 75 MUMFORD ROAD
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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.