



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

OIL ANALYSIS REPORT

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

Area
EDWARD VILLAGE HOTEL [174535]

Machine Id
M101051

Component
Diesel Engine

Fluid
CASTROL 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | WA0020095 | WA0017112 | --- |
| Sample Date | | Client Info | | 06 Jul 2023 | 12 Sep 2021 | --- |
| Machine Age | hrs | Client Info | | 271 | 253 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|-----|
| Iron | ppm | ASTM D5185(m) | >100 | 4 | 4 | --- |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | --- |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185(m) | >20 | <1 | <1 | --- |
| Lead | ppm | ASTM D5185(m) | >40 | 3 | 4 | --- |
| Copper | ppm | ASTM D5185(m) | >330 | 14 | 22 | --- |
| Tin | ppm | ASTM D5185(m) | >15 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | --- |

CONTAMINATION

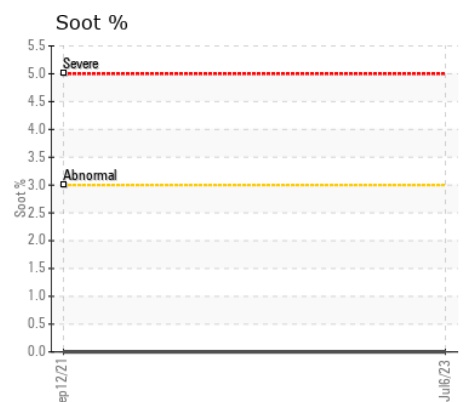
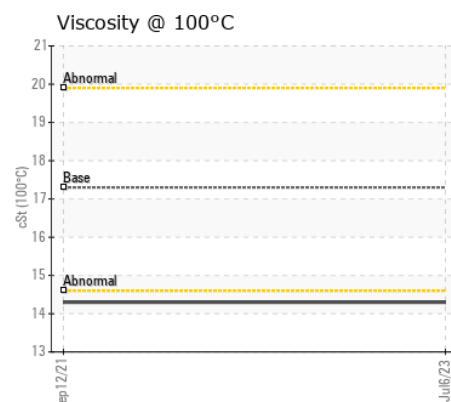
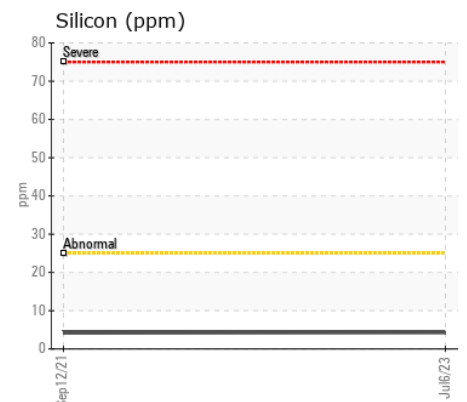
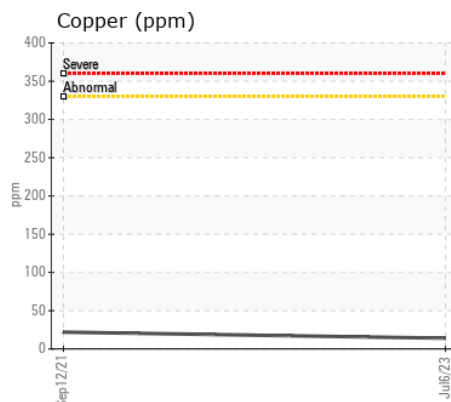
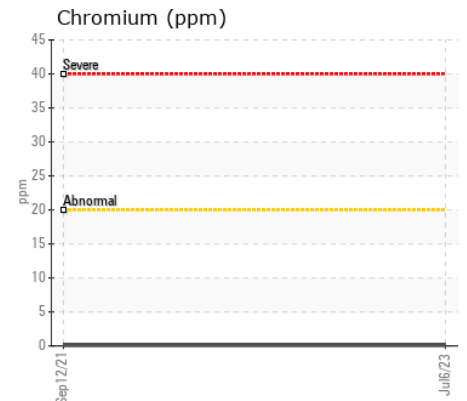
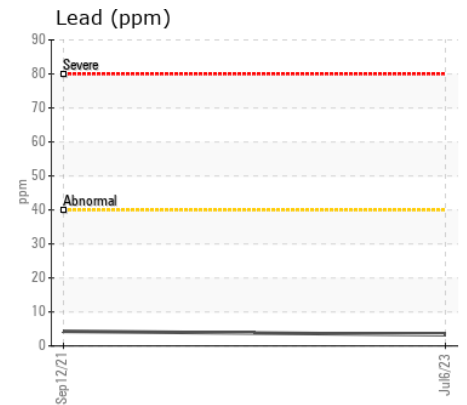
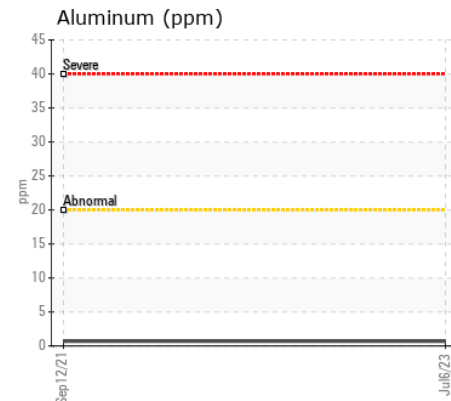
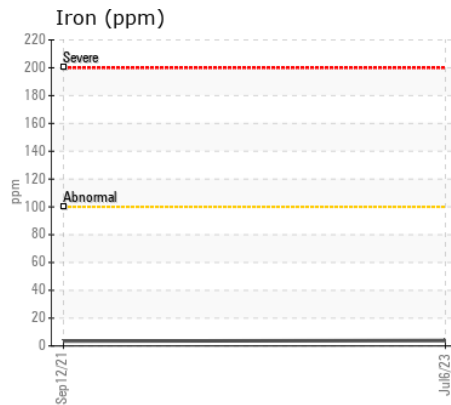
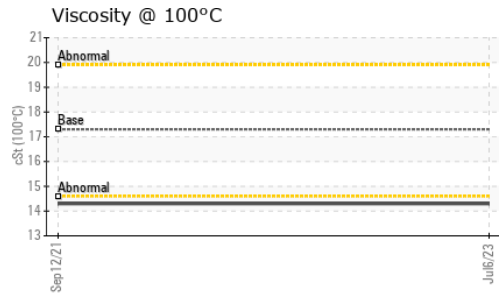
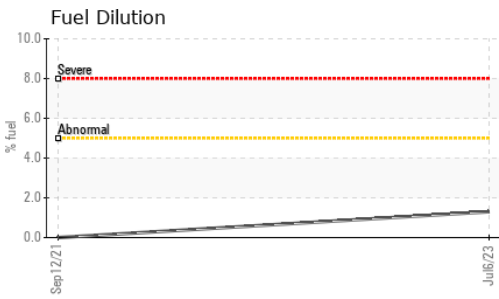
Light fuel dilution occurring. No other contaminants were detected in the oil.

| | | | | | | |
|------------------|----------|---------------|------|--------------|------|-----|
| Silicon | ppm | ASTM D5185(m) | >25 | 4 | 4 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 1 | --- |
| Fuel | % | ASTM D7593* | >5 | 1.3 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 4.9 | 5.0 | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 13.2 | 14.3 | --- |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|--------------|------|-----|
| Sodium | ppm | ASTM D5185(m) | | 4 | 4 | --- |
| Boron | ppm | ASTM D5185(m) | | 1 | 2 | --- |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 1 | 7 | --- |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185(m) | | 27 | 117 | --- |
| Calcium | ppm | ASTM D5185(m) | 3200 | 2621 | 2518 | --- |
| Phosphorus | ppm | ASTM D5185(m) | 900 | 632 | 664 | --- |
| Zinc | ppm | ASTM D5185(m) | 1000 | 658 | 707 | --- |
| Sulfur | ppm | ASTM D5185(m) | | 9133 | 7757 | --- |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 4.1 | 5.5 | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 17.3 | 14.3 | 14.3 | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020095 **Received** : 19 Jul 2023
Lab Number : 02570803 **Diagnosed** : 20 Jul 2023
Unique Number : 5607849 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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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.