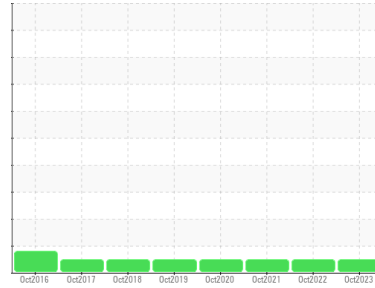


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area
GREATER MONCTON AIRPORT [6100213638]
Machine Id
962756
Component
Diesel Engine
Fluid
CASTROL 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WA0020657 | WA0018629 | WA0016811 |
| Sample Date | Client Info | | 25 Oct 2023 | 27 Oct 2022 | 15 Oct 2021 |
| Machine Age | hrs | Client Info | 200 | 188 | 159 |
| Oil Age | hrs | Client Info | 12 | 29 | 10 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| Glycol | WC Method | | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron | ppm | ASTM D5185(m) | >51 | 2 | 2 |
| Chromium | ppm | ASTM D5185(m) | >11 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >31 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >26 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >26 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185(m) | | 7 | 6 |
| Barium | ppm | ASTM D5185(m) | | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 20 | 2 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 306 | 26 |
| Calcium | ppm | ASTM D5185(m) | | 1843 | 2333 |
| Phosphorus | ppm | ASTM D5185(m) | | 896 | 961 |
| Zinc | ppm | ASTM D5185(m) | | 1013 | 1021 |
| Sulfur | ppm | ASTM D5185(m) | | 2856 | 3112 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Silicon | ppm | ASTM D5185(m) | >22 | 4 | 4 |
| Sodium | ppm | ASTM D5185(m) | >406 | 2 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 |

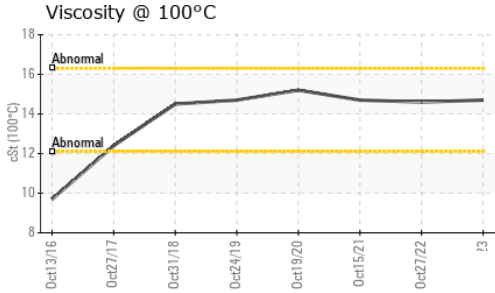
INFRA-RED

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|---------|-------------|----------|
| Soot % | % | ASTM D7844* | >3 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 4.9 | 5.8 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 16.5 | 16.8 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|---------|-------------|----------|
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 10.2 | 9.7 |

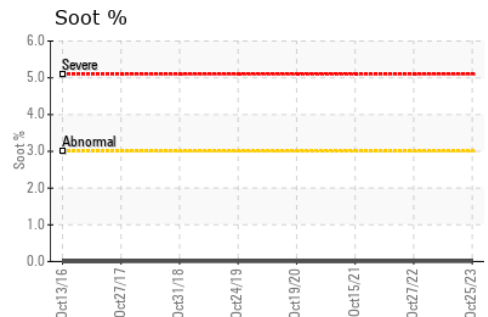
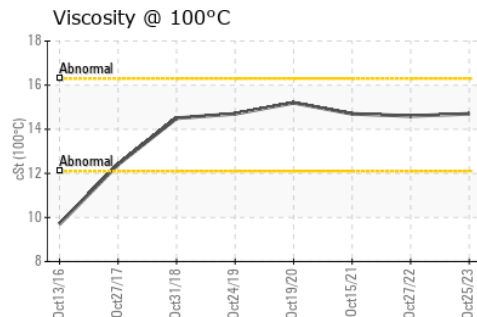
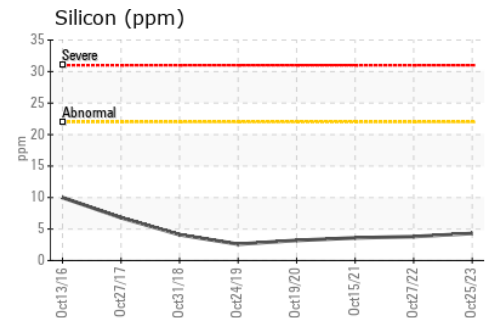
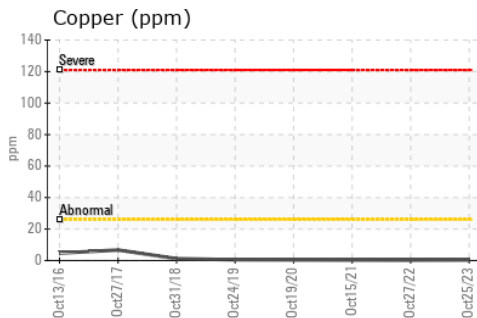
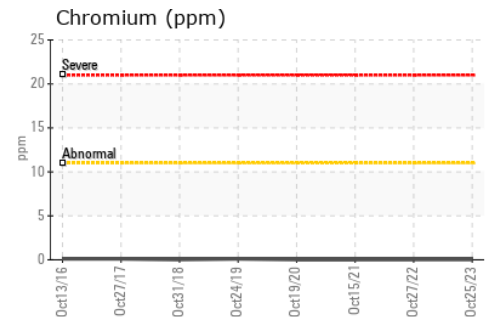
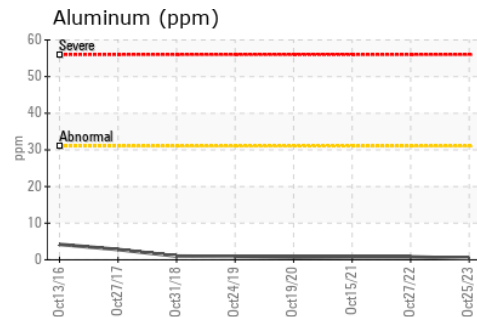
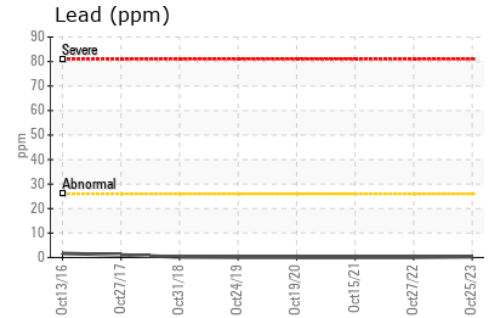
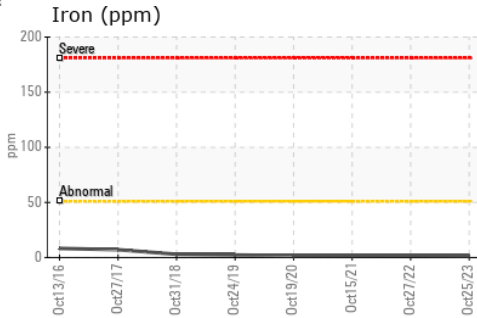
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Emulsified Water | scalar | Visual* | >0.21 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.7 | 14.6 | 14.7 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020657 **Received** : 27 Oct 2023
Lab Number : 02592372 **Diagnosed** : 27 Oct 2023
Unique Number : 5669451 **Diagnostician** : Wes Davis
Test Package : MOB 1

Wajax Power Systems
 485 VENTURE DR
 MONCTON, NB
 CA E1H 2P4
 Contact: Doug Balsler
 dbalsler@wajax.com
 T: (506)855-5371
 F: (506)870-4448

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.