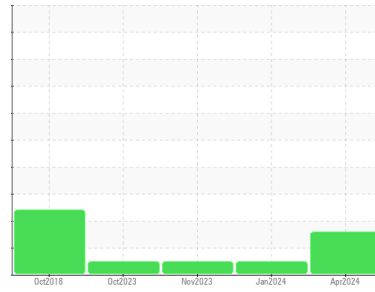




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
KOVATERRA MC100D FMC-004 (S/N 6092)
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (8 LTR)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0928374 | WC0892430 | WC0883859 |
| Sample Date | Client Info | | 06 Apr 2024 | 27 Jan 2024 | 30 Nov 2023 |
| Machine Age | hrs | Client Info | 1524 | 1320 | 1087 |
| Oil Age | hrs | Client Info | 250 | 0 | 250 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | ABNORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | WC Method | | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|----|
| Iron | ppm | ASTM D5185(m) | >100 | 55 | 13 | 11 |
| Chromium | ppm | ASTM D5185(m) | >20 | 4 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 18 | 2 | 2 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | 2 | 1 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 | |
|------------|--------|---------------|---------|--------------|----------|------|
| Boron | ppm | ASTM D5185(m) | | 36 | 37 | 33 |
| Barium | ppm | ASTM D5185(m) | | <1 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 39 | 40 | 43 |
| Manganese | ppm | ASTM D5185(m) | | 1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 512 | 524 | 591 |
| Calcium | ppm | ASTM D5185(m) | | 1730 | 1651 | 1562 |
| Phosphorus | ppm | ASTM D5185(m) | | 739 | 766 | 781 |
| Zinc | ppm | ASTM D5185(m) | | 883 | 871 | 935 |
| Sulfur | ppm | ASTM D5185(m) | | 2116 | 2247 | 2147 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

CONTAMINANTS

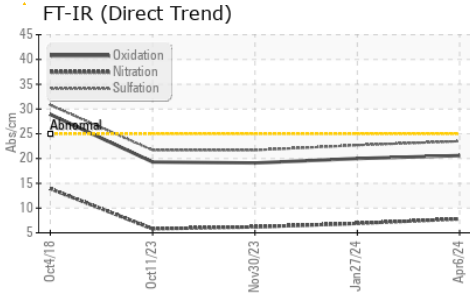
| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|-------------|----------|----|
| Silicon | ppm | ASTM D5185(m) | >25 | ▲ 56 | 9 | 10 |
| Sodium | ppm | ASTM D5185(m) | >118 | 8 | 4 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | 8 | 1 | 0 |

INFRA-RED

| | method | limit/base | current | history1 | history2 | |
|-----------|---------|-------------|---------|-------------|----------|------|
| Soot % | % | ASTM D7844* | >3 | 0.7 | 0.5 | 0.4 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.8 | 6.9 | 6.2 |
| Sulfation | Abs.1mm | ASTM D7415* | >30 | 23.5 | 22.7 | 21.7 |



OIL ANALYSIS REPORT



FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|----------|-------------|---------|----------|----------|
| Abs./1mm | ASTM D7414* | >25 | 20.0 | 19.1 |

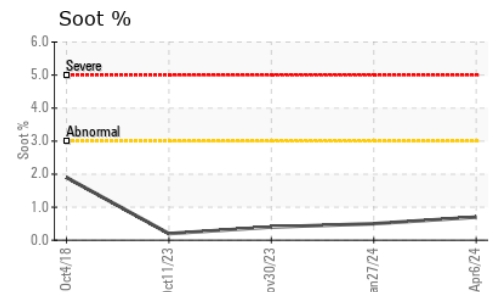
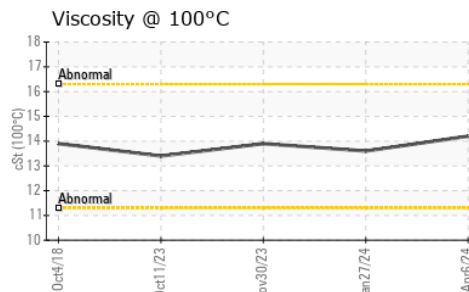
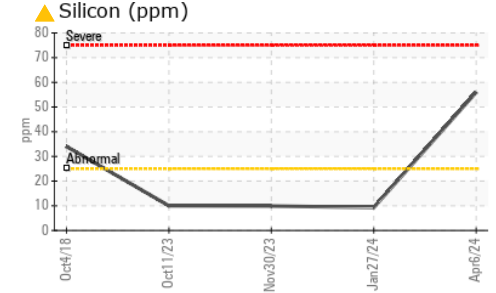
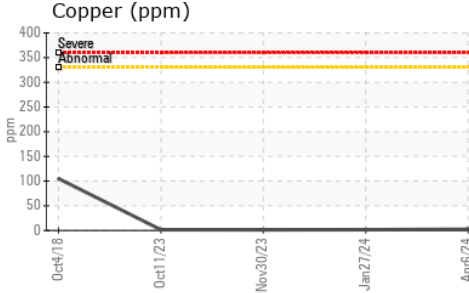
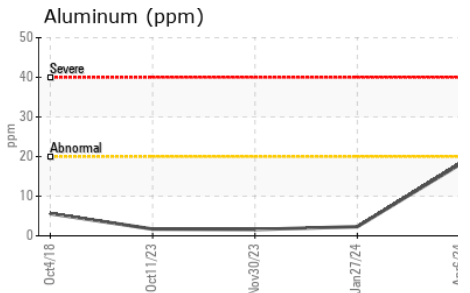
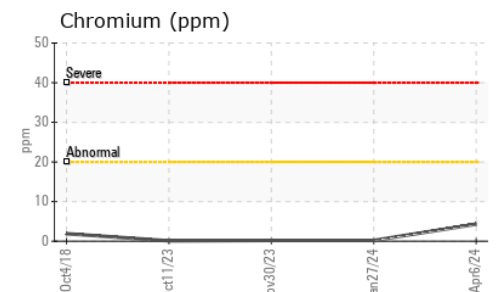
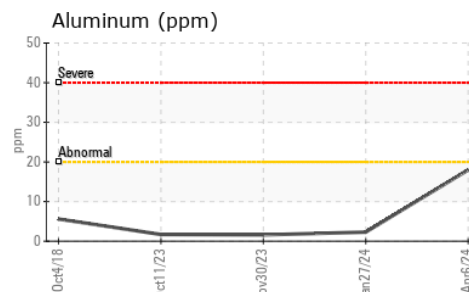
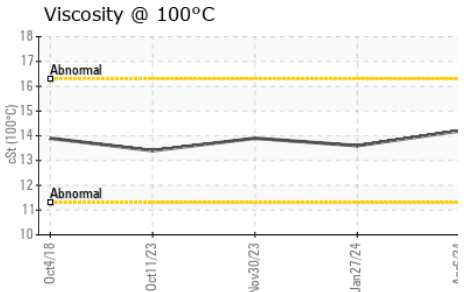
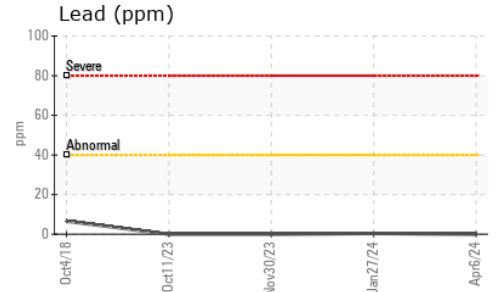
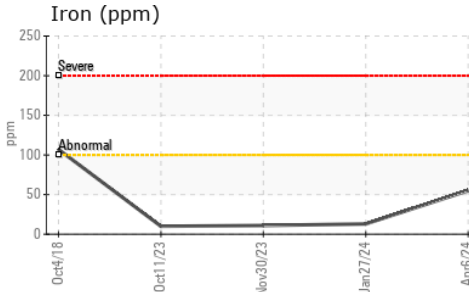
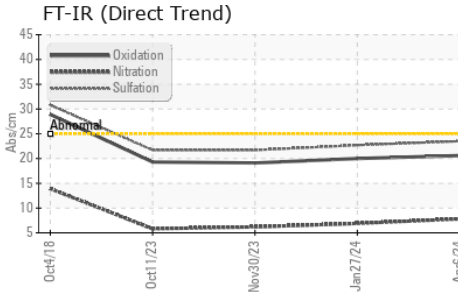
VISUAL

| method | limit/base | current | history1 | history2 |
|--------|------------|---------|----------|----------|
| scalar | Visual* | >0.2 | NEG | NEG |
| scalar | Visual* | NEG | NEG | NEG |

FLUID PROPERTIES

| method | limit/base | current | history1 | history2 |
|--------|---------------|---------|----------|----------|
| cSt | ASTM D7279(m) | 14.2 | 13.6 | 13.9 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0928374
Lab Number : 02627797
Unique Number : 5760929
Test Package : MOB 1

Agnico Eagle Canada
 1350 Government Rd. W, MACASSA COMPLEX
 Kirkland Lake, ON
 CA P2N 3J1
 Contact: Jay Gould
 MacassaMobileUGPlanning@agnicoeagle.com
 T: (705)567-5208
 F: (705)567-5221

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.