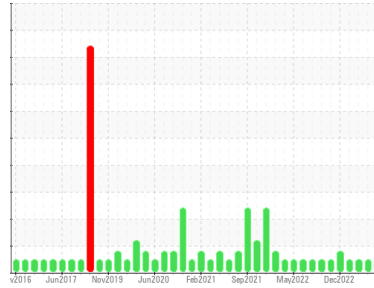




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NEW FLYER 1107
 Component
Diesel Engine
 Fluid
SAFETY-KLEEN PERFORMANCE PLUS XHD-7 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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 | | WC0830297 | WC0811516 | WC0791247 |
| Sample Date | Client Info | | 09 Aug 2023 | 04 Jul 2023 | 17 Mar 2023 |
| Machine Age | kms | Client Info | 820772 | 812344 | 0 |
| Oil Age | kms | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >3.0 | <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) | >75 | 23 | 37 | 14 |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | 1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | <1 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >15 | 2 | 2 | 3 |
| Lead | ppm | ASTM D5185(m) | >25 | 2 | 1 | <1 |
| Copper | ppm | ASTM D5185(m) | >100 | 12 | 12 | <1 |
| Tin | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| 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) | | 1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | <1 | 7 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 58 | 59 | 60 |
| Manganese | ppm | ASTM D5185(m) | | 2 | 7 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 977 | 978 | 952 |
| Calcium | ppm | ASTM D5185(m) | | 1035 | 1101 | 1062 |
| Phosphorus | ppm | ASTM D5185(m) | | 1042 | 1082 | 1076 |
| Zinc | ppm | ASTM D5185(m) | | 1177 | 1202 | 1163 |
| Sulfur | ppm | ASTM D5185(m) | | 2436 | 2540 | 2513 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|----|
| Silicon | ppm | ASTM D5185(m) | >25 | 8 | 22 | 14 |
| Sodium | ppm | ASTM D5185(m) | | 7 | 37 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 3 | <1 |

INFRA-RED

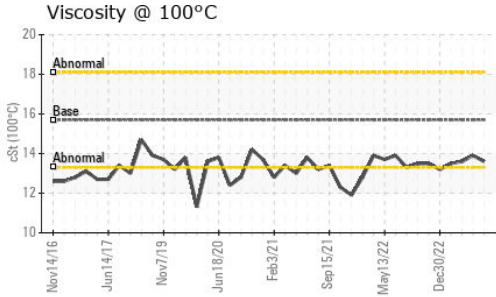
| | method | limit/base | current | history1 | history2 | |
|-----------|----------|-------------|---------|-------------|----------|------|
| Soot % | % | ASTM D7844* | >6 | 0.6 | 0.5 | 0.6 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.0 | 8.0 | 8.8 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 21.7 | 21.5 | 22.0 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 | |
|-----------|----------|-------------|---------|-------------|----------|------|
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 16.8 | 17.1 | 15.6 |



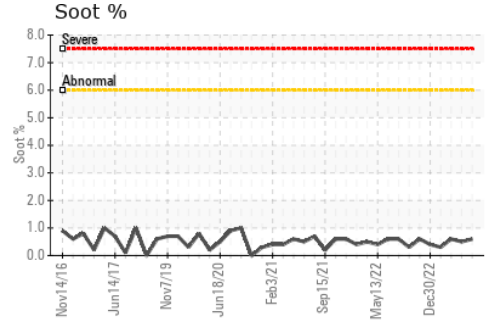
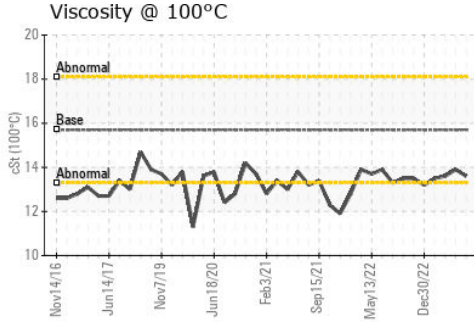
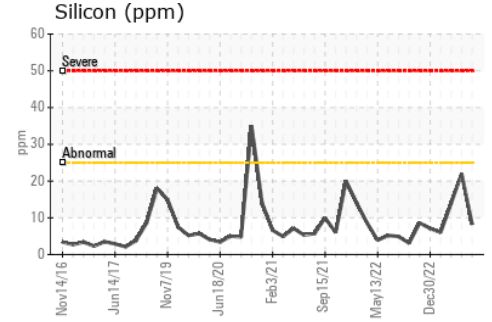
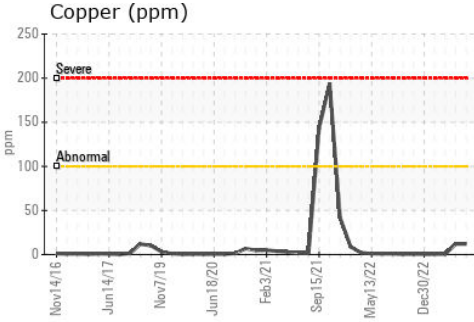
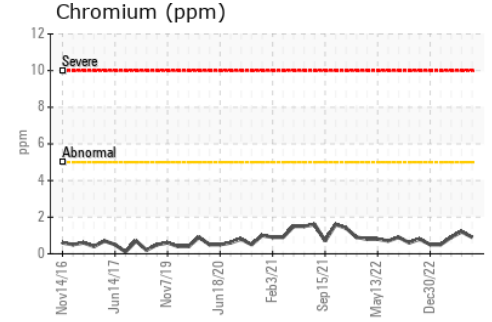
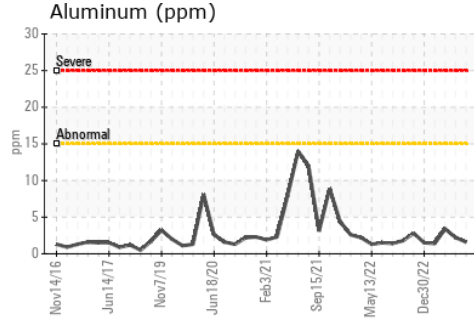
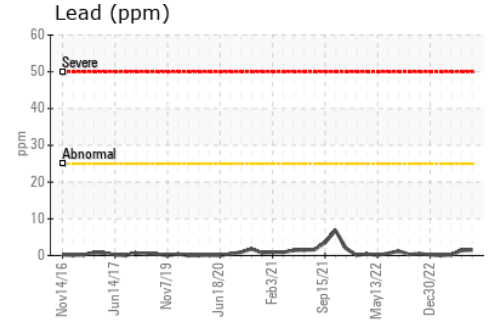
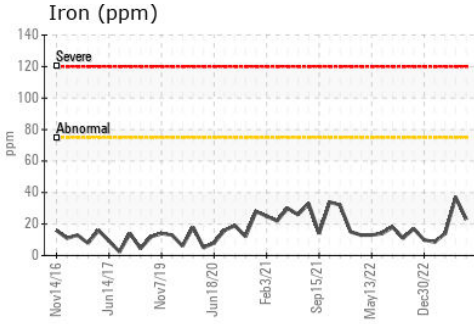
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.7 | 13.6 | 13.9 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0830297 **Received** : 14 Aug 2023
Lab Number : 02575642 **Diagnosed** : 14 Aug 2023
Unique Number : 5620693 **Diagnostician** : Wes Davis
Test Package : MOB 1

CITY OF HAMILTON
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 MOUNT HOPE, ON
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 Contact: Jeff Parr
 jeff.parr@hamilton.ca
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 F: (905)679-4502

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.