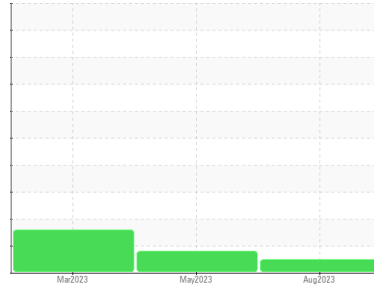




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
711037
Component
Transmission (Auto)
Fluid
PETRO CANADA DURADRIIVE HD SYNTHETIC ATF (--- GAL)

DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il n'y a aucun indice de contamination dans le fluide.

Fluid Condition

L'état de le fluide est acceptable pour la durée de service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | GFL0088874 | GFL0062043 | GFL0047555 |
| Sample Date | Client Info | | 09 Aug 2023 | 08 May 2023 | 22 Mar 2023 |
| Machine Age | hrs | Client Info | 5002 | 4250 | 3939 |
| Oil Age | hrs | Client Info | 1200 | 1200 | 1200 |
| Oil Changed | Client Info | | Not Chngd | N/A | Changed |
| Sample Status | | | NORMAL | ABNORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|-------|
| Iron | ppm | ASTM D5185(m) | >220 | 18 | 65 | 116 |
| Chromium | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >75 | 8 | 29 | 51 |
| Lead | ppm | ASTM D5185(m) | >95 | 3 | 52 | ▲ 98 |
| Copper | ppm | ASTM D5185(m) | >60 | 8 | ▲ 65 | ▲ 118 |
| Tin | ppm | ASTM D5185(m) | >10 | 2 | 5 | 10 |
| Antimony | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| 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) | | 45 | 102 | 131 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185(m) | | <1 | 1 | 2 |
| Magnesium | ppm | ASTM D5185(m) | | 3 | 1 | <1 |
| Calcium | ppm | ASTM D5185(m) | | 123 | 131 | 132 |
| Phosphorus | ppm | ASTM D5185(m) | | 221 | 314 | 387 |
| Zinc | ppm | ASTM D5185(m) | | 7 | 5 | 6 |
| Sulfur | ppm | ASTM D5185(m) | | 1526 | 1786 | 1943 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

CONTAMINANTS

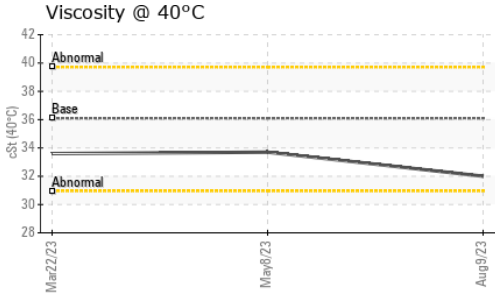
| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|----|
| Silicon | ppm | ASTM D5185(m) | >25 | 7 | 8 | 11 |
| Sodium | ppm | ASTM D5185(m) | | 68 | 7 | 11 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 3 | 5 |

VISUAL

| | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-------|
| White Metal | scalar | Visual* | NONE | VLITE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | VLITE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |

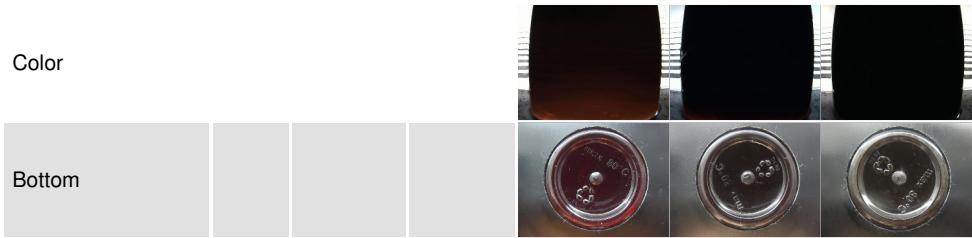


OIL ANALYSIS REPORT

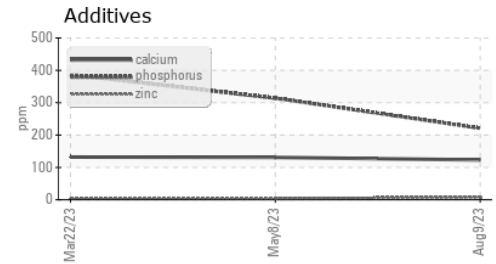
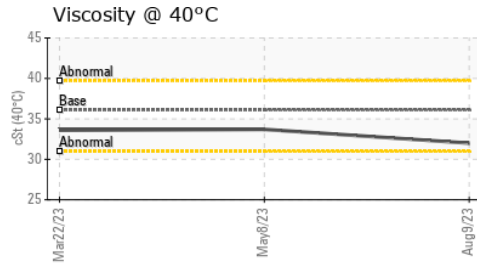
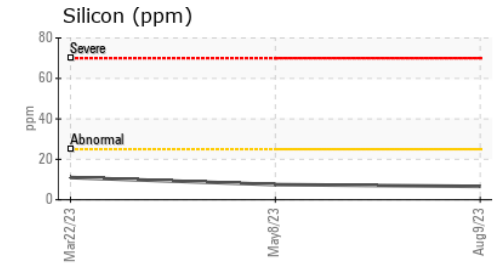
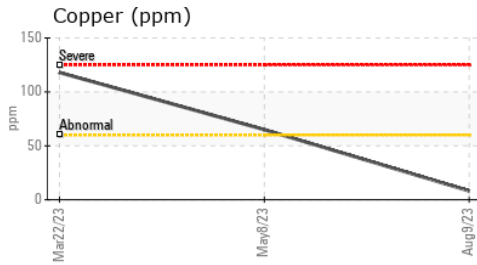
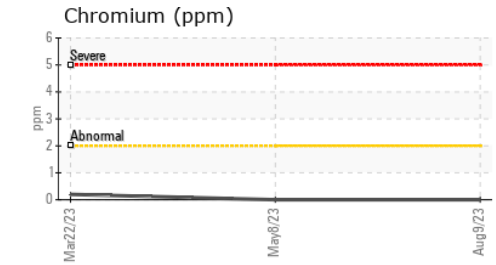
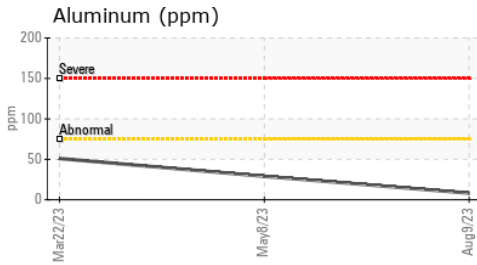
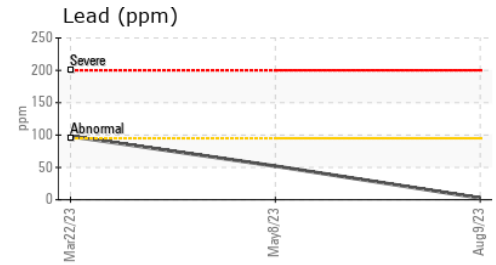
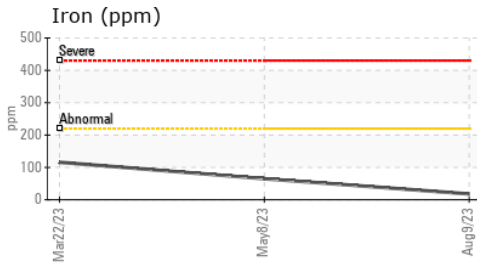


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|---------------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 36.1 | 32.0 | 33.7 | 33.6 |

| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
|---------------|--|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 780 - GMA - ICI - Solid Waste
Sample No. : GFL0088874 **Received** : 12 Sep 2023 4365 boul. St-Elzear Ouest, Laval, QC
Lab Number : 02581870 **Diagnosed** : 12 Sep 2023 CA H7P 4J3
Unique Number : 5642935 **Diagnostician** : Wes Davis
Test Package : MOB 1

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.

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