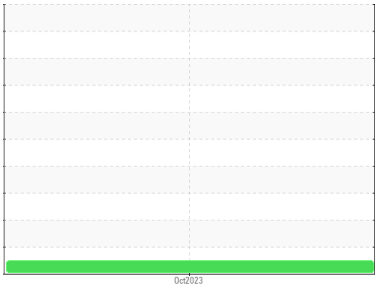
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
**OR425**
Component
**Diesel Engine**
Fluid
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

## DIAGNOSIS

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

**Wear**
Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

**Contamination**
Il n`y a aucun indice de contamination dans l'huile.

**Fluid Condition**
L'état de l'huile est acceptable pour la durée de service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **GFL0097021** | --- | --- |
| Sample Date | | Client Info | | **11 Oct 2023** | --- | --- |
| Machine Age | kms | Client Info | | **18125** | --- | --- |
| Oil Age | kms | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **Not Changd** | --- | --- |
| Sample Status | | | | **NORMAL** | --- | --- |

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

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185(m) | >100 | **12** | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >20 | **<1** | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >2 | **<1** | --- | --- |
| Titanium | ppm | ASTM D5185(m) | >2 | **0** | --- | --- |
| Silver | ppm | ASTM D5185(m) | >2 | **<1** | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | **2** | --- | --- |
| Lead | ppm | ASTM D5185(m) | >40 | **<1** | --- | --- |
| Copper | ppm | ASTM D5185(m) | >330 | **<1** | --- | --- |
| Tin | ppm | ASTM D5185(m) | >15 | **0** | --- | --- |
| Antimony | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | **0** | --- | --- |

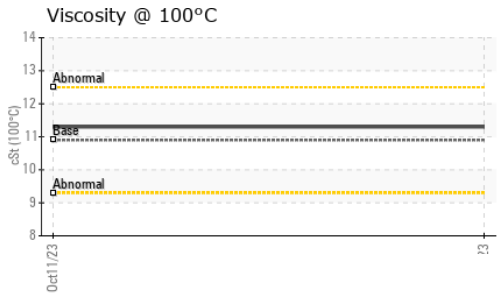
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185(m) | 250 | **37** | --- | --- |
| Barium | ppm | ASTM D5185(m) | 10 | **<1** | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 100 | **42** | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 450 | **599** | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 3000 | **1470** | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | **910** | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 1350 | **1071** | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 4250 | **2400** | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | **<1** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | >25 | **6** | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | **2** | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **0** | --- | --- |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Soot % | % | ASTM D7844* | >3 | **0.2** | --- | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | **6.1** | --- | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | **21.9** | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | **18.4** | --- | --- |

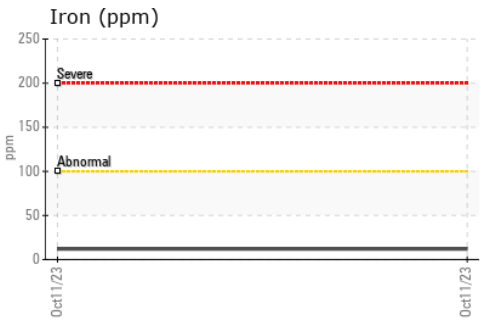
# OIL ANALYSIS REPORT

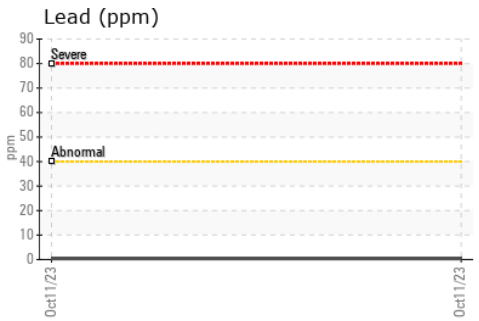


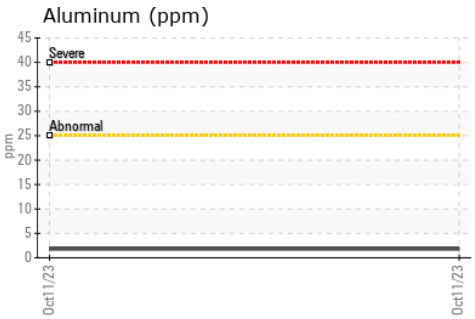

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Emulsified Water | scalar | Visual* | >0.2 | **NEG** | --- | --- |
| Free Water | scalar | Visual* | | **NEG** | --- | --- |

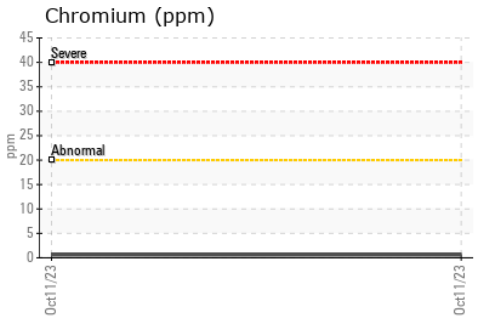
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 100°C | cSt | ASTM D7279(m) | 10.9 | **11.3** | --- | --- |

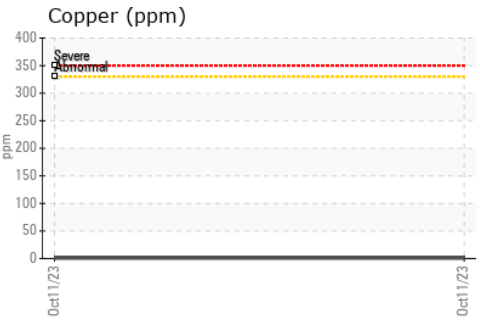
## GRAPHS

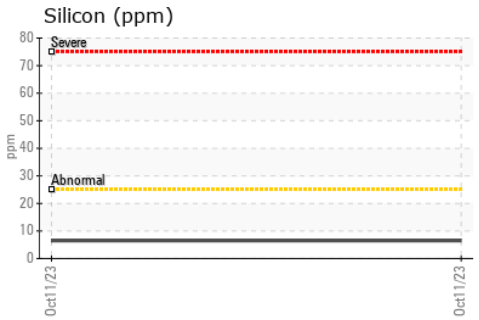


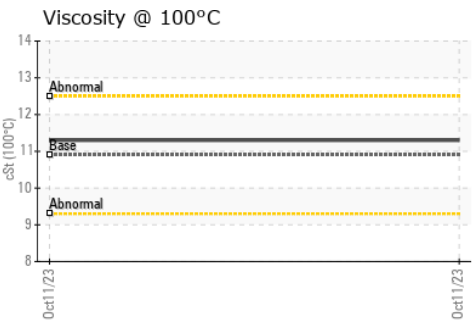



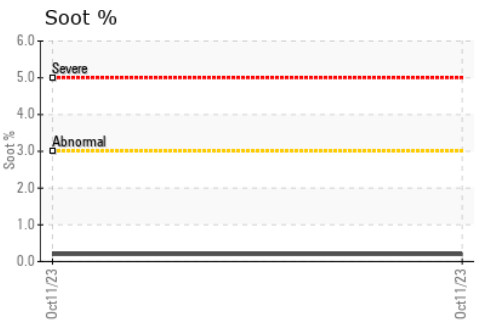




ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : GFL0097021
**Lab Number** : 02596066
**Unique Number** : 5681146
**Test Package** : MOB 1

**Received** : 14 Nov 2023
**Diagnosed** : 14 Nov 2023
**Diagnostician** : Wes Davis

**GFL Environmental - 780 - GMA - ICI - Solid Waste**
4365 boul. St-Elzear Ouest,
Laval, QC
CA H7P 4J3
Contact: Louis Michaud
louis.michaus@gflenv.com
T:
F:

*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.*