



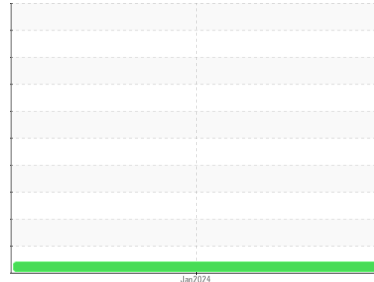
# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id  
**813106**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- LTR)**



## DIAGNOSIS

### Recommendation

Aucune mesure corrective n'est recommandée pour l'instant. 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

Légère dilution de carburant dans l'huile. Aucun autre contaminant n'a été détecté dans l'huile.

### Fluid Condition

La viscosité de l'échantillon se situe dans la portée de l'SAE 30; nous vous conseillons de vérifier. L'état de l'huile est acceptable pour la durée de service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0079081</b>	---	---
Sample Date	Client Info	<b>16 Jan 2024</b>	---	---
Machine Age	kms Client Info	<b>34978</b>	---	---
Oil Age	kms Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>80	<b>33</b>	---	---
Chromium ppm ASTM D5185(m)	>5	<b>1</b>	---	---
Nickel ppm ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)	>30	<b>33</b>	---	---
Lead ppm ASTM D5185(m)	>30	<b>0</b>	---	---
Copper ppm ASTM D5185(m)	>150	<b>3</b>	---	---
Tin ppm ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Antimony ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium ppm ASTM D5185(m)		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	250	<b>9</b>	---	---
Barium ppm ASTM D5185(m)	10	<b>&lt;1</b>	---	---
Molybdenum ppm ASTM D5185(m)	100	<b>59</b>	---	---
Manganese ppm ASTM D5185(m)		<b>1</b>	---	---
Magnesium ppm ASTM D5185(m)	450	<b>915</b>	---	---
Calcium ppm ASTM D5185(m)	3000	<b>1144</b>	---	---
Phosphorus ppm ASTM D5185(m)	1150	<b>965</b>	---	---
Zinc ppm ASTM D5185(m)	1350	<b>1129</b>	---	---
Sulfur ppm ASTM D5185(m)	4250	<b>2680</b>	---	---
Lithium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>20	<b>6</b>	---	---
Sodium ppm ASTM D5185(m)	>158	<b>5</b>	---	---
Potassium ppm ASTM D5185(m)	>20	<b>77</b>	---	---
Fuel % ASTM D7593*	>5	<b>1</b>	---	---
Water % ASTM D6304*	>0.2	<b>0.078</b>	---	---
ppm Water ppm ASTM D6304*	>2000	<b>783</b>	---	---
Glycol % ASTM D7922*		<b>0.0</b>	---	---

## INFRA-RED

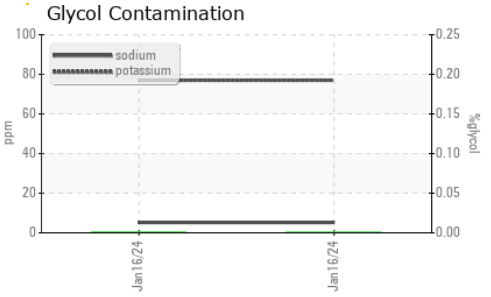
method	limit/base	current	history1	history2
Soot % ASTM D7844*	>3	<b>0.3</b>	---	---
Nitration Abs/cm ASTM D7624*	>20	<b>8.4</b>	---	---
Sulfation Abs/1mm ASTM D7415*	>30	<b>19.7</b>	---	---

## FLUID DEGRADATION

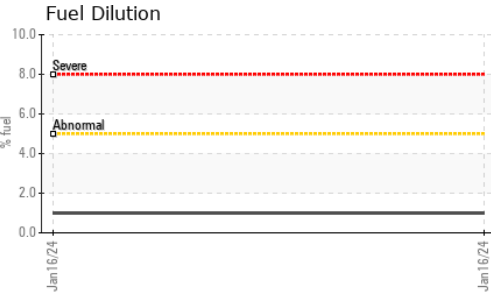
method	limit/base	current	history1	history2
Oxidation Abs/1mm ASTM D7414*	>25	<b>15.7</b>	---	---



# OIL ANALYSIS REPORT

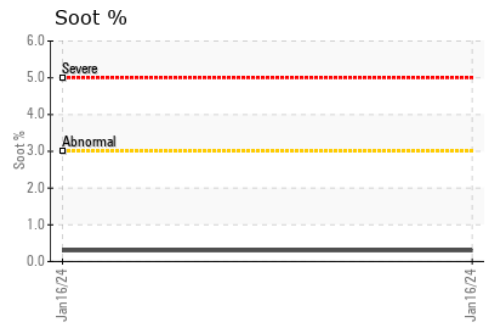
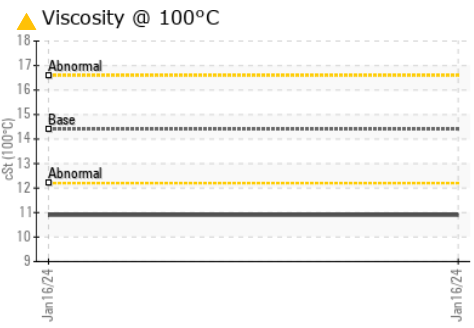
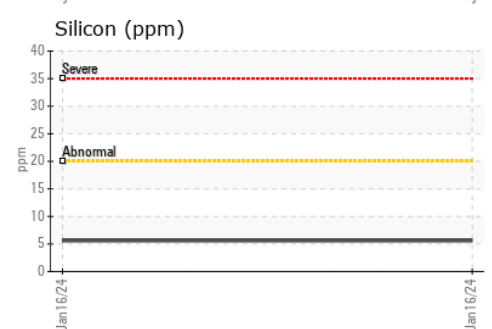
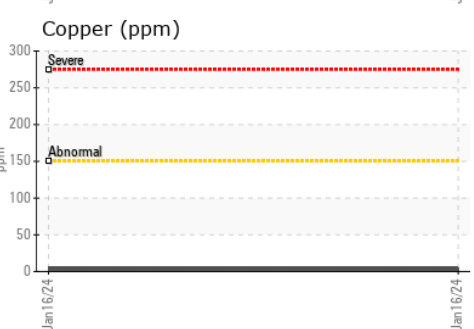
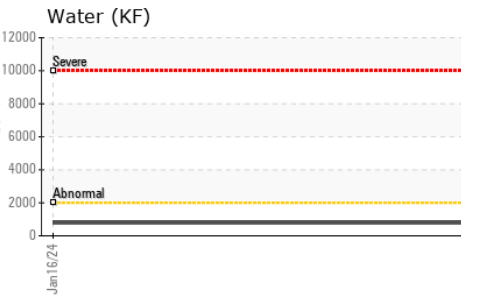
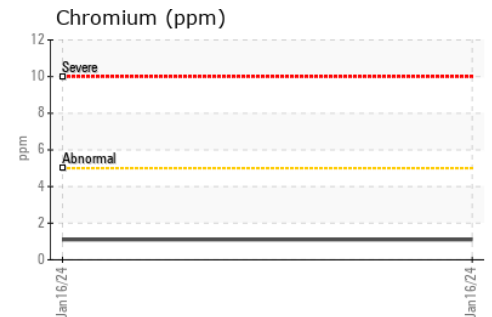
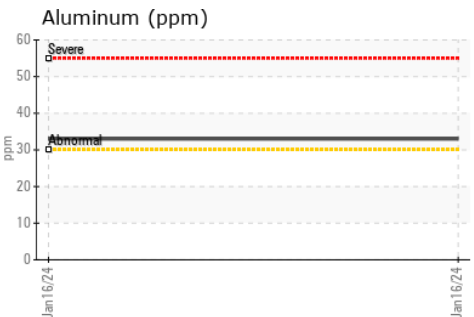
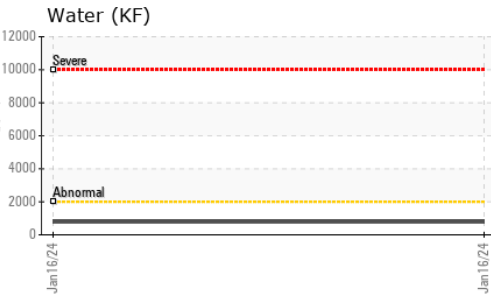
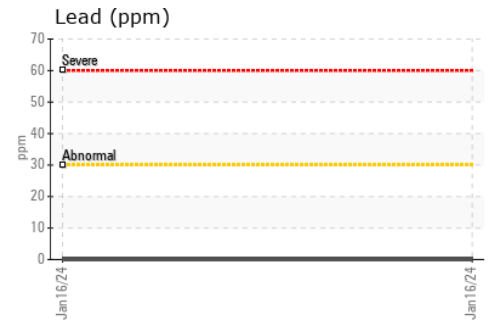
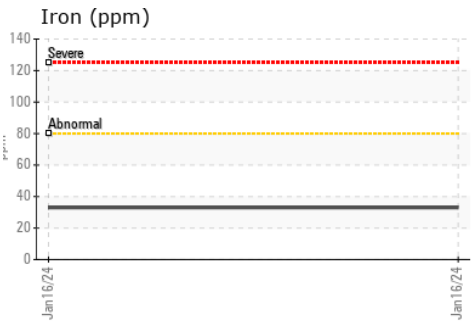


VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	.2%	---
Free Water	scalar	Visual*		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 10.9	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0079081 **Received** : 18 Jan 2024  
**Lab Number** : 02609619 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5710705 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, Glycol, KF, PercentFuel )

**Matrec - 791 - Rimouski**  
 350 Avenue de L'Industrie  
 Rimouski, QC  
 CA G5M 1W4  
 Contact: Daniel Cloutier  
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 T: (418)724-6447 poste 4142  
 F: (418)388-2038

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.