

Machine Id  
**279270**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL SUPER 1000 5W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Nous vous recommandons de vérifier le filtre à air, le système d'induction d'air et tout endroit où la saleté peut entrer dans le composant. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Veuillez préciser la marque et le modèle du composant lors du prochain échantillon.

### Wear

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

### Contamination

Quantité modérée de carburant dans l'huile. Concentration modérée de saleté dans l'huile. La teneur en eau est négligeable. Les tests confirment la présence de carburant dans l'huile.

### Fluid Condition

Le résultat pour le BN indique que la réserve d'alcalinité est acceptable pour l'huile. Il y a du carburant dans l'huile, ce qui réduit la viscosité. L'huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0049347</b>	---	---
Sample Date	Client Info		<b>11 Jul 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

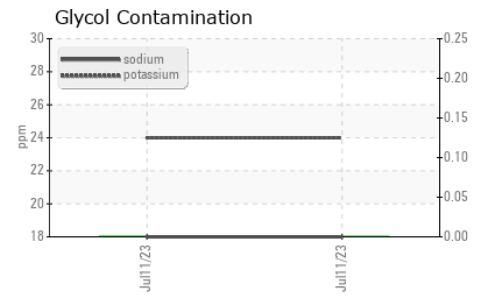
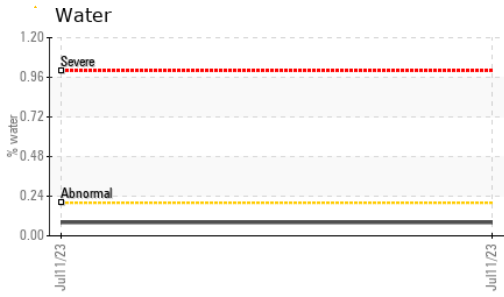
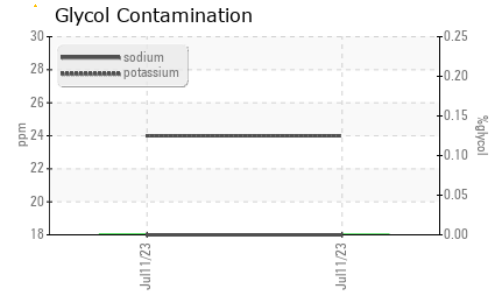
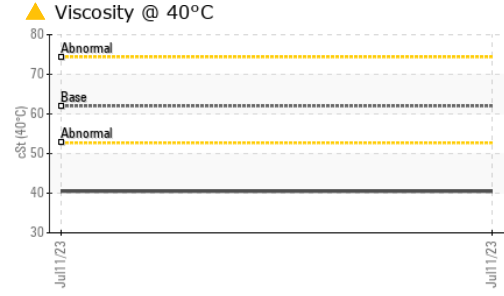
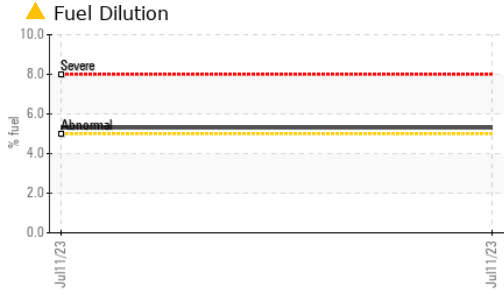
WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>10</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>4</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>14</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<b>0</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)	<b>149</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>8</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>99</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>7</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>432</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>1093</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>694</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>722</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>2376</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>▲ 36</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>18</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>24</b>	---	---
Fuel	%	ASTM D7593* >5	<b>▲ 5.3</b>	---	---
Water	%	ASTM D6304* >0.2	<b>0.081</b>	---	---
ppm Water	ppm	ASTM D6304* >2000	<b>819.5</b>	---	---
Glycol	%	ASTM D7922*	<b>0.0</b>	---	---

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>4.6</b>	---	---
Sulfation	Abs/1mm	ASTM D7415* >30	<b>14.1</b>	---	---

# OIL ANALYSIS REPORT

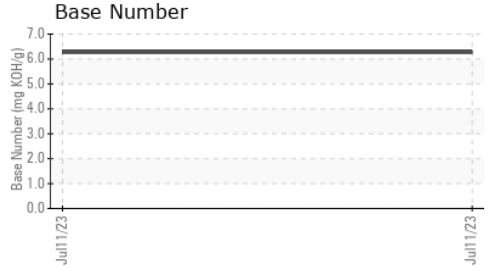
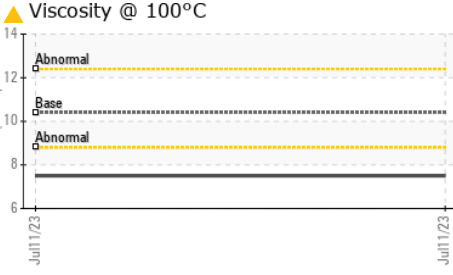
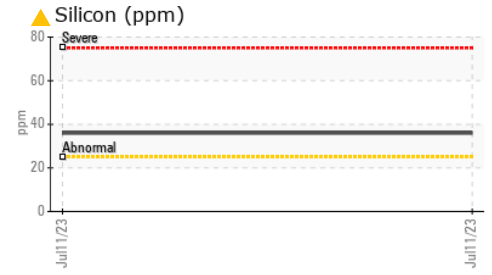
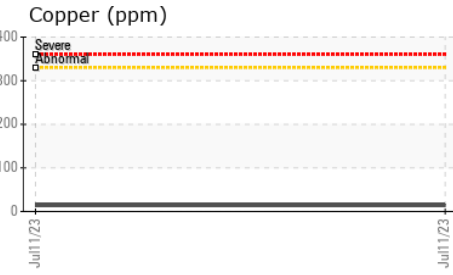
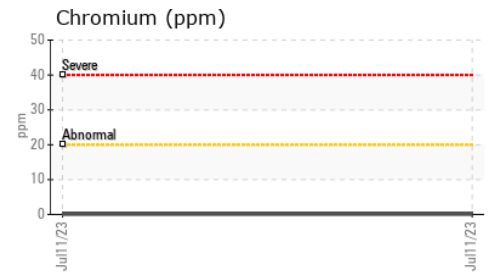
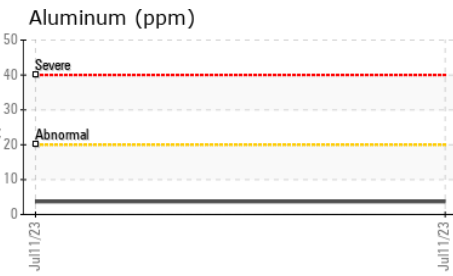
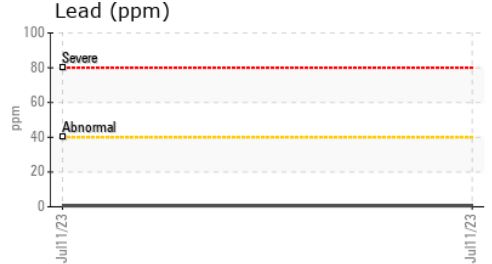
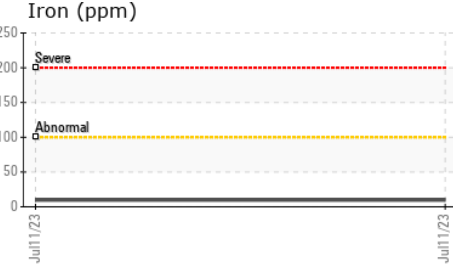


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>7.0</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>6.27</b>	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	62.0	<b>▲ 40.5</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.4	<b>▲ 7.5</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	157	<b>154</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **C N RAIL - WORK EQUIPMENT**  
**Sample No.** : PC0049347 **Received** : 13 Jul 2023 8050 BLVD. CAVENDISH  
**Lab Number** : **02569658** **Diagnosed** : 14 Jul 2023 ST-LAURENT, QC  
**Unique Number** : 5606704 **Diagnostician** : Kevin Marson CA H4T 1T1  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel, VI ) **Contact:** F. CHARETTE

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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