



# OIL ANALYSIS REPORT

Sample Rating Trend

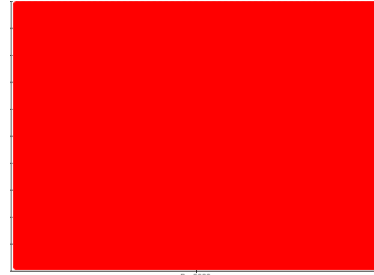
GLYCOL



Machine Id  
**227128**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Nous vous recommandons de vérifier la source de la fuite de fluide de refroidissement. Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Usure de segment. Usure de piston. Une usure du palier de glissement est indiquée.

### Contamination

Le test de glycol est positif. Concentration élevée de glycol dans l'huile.

### Fluid Condition

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0079078</b>	---	---
Sample Date	Client Info		<b>06 Dec 2023</b>	---	---
Machine Age	kms	Client Info	<b>233442</b>	---	---
Oil Age	kms	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	<b>77</b>	---
Chromium	ppm	ASTM D5185(m)	>5	<b>6</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>34</b>	---
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185(m)	>150	<b>22</b>	---
Tin	ppm	ASTM D5185(m)	>5	<b>5</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>117</b>	---
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>418</b>	---
Manganese	ppm	ASTM D5185(m)		<b>1</b>	---
Magnesium	ppm	ASTM D5185(m)	450	<b>836</b>	---
Calcium	ppm	ASTM D5185(m)	3000	<b>992</b>	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>835</b>	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1094</b>	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2508</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<b>153</b>	---
Sodium	ppm	ASTM D5185(m)	>158	<b>5087</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>100</b>	---
Glycol	%	ASTM D7922*		<b>0.273</b>	---

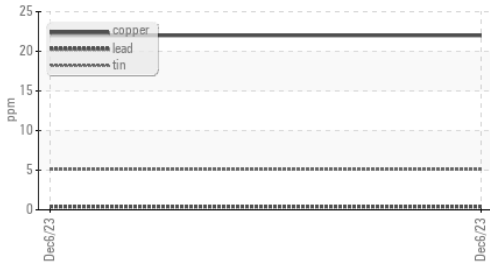
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>19.4</b>	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>30.8</b>	---



# OIL ANALYSIS REPORT

## Non-ferrous Metals



## FLUID DEGRADATION

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

## VISUAL

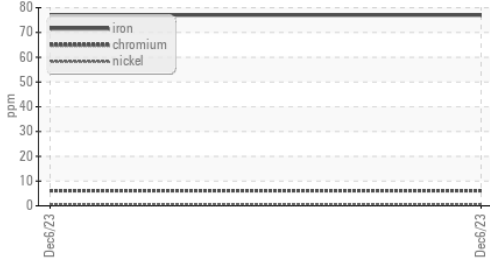
method	limit/base	current	history1	history2	
Emulsified Water	scalar Visual*	>0.2	NEG	---	---
Free Water	scalar Visual*		NEG	---	---

## FLUID PROPERTIES

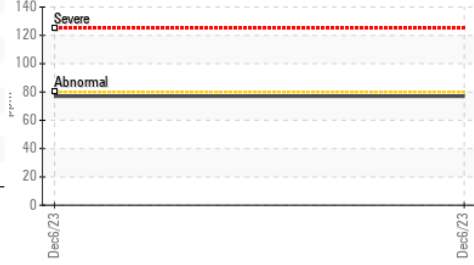
method	limit/base	current	history1	history2	
Visc @ 100°C	cSt ASTM D7279(m)	14.4	13.1	---	---

## GRAPHS

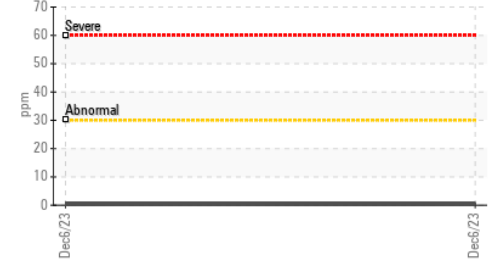
## Ferrous Alloys



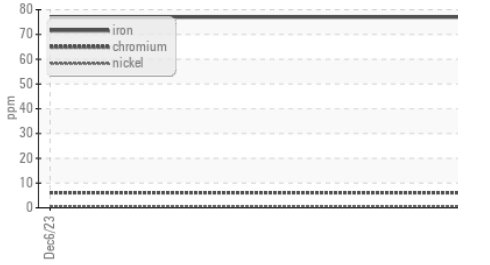
## Iron (ppm)



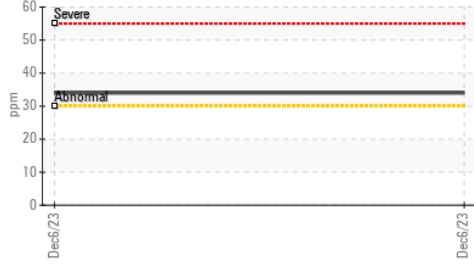
## Lead (ppm)



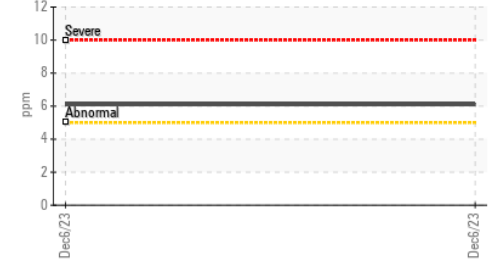
## Ferrous Alloys



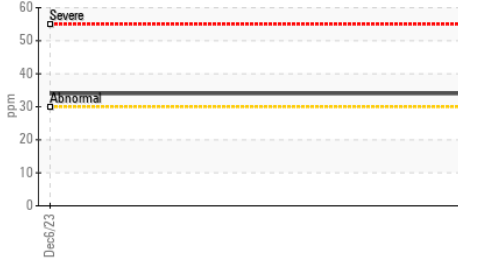
## Aluminum (ppm)



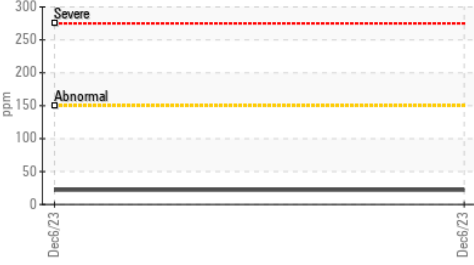
## Chromium (ppm)



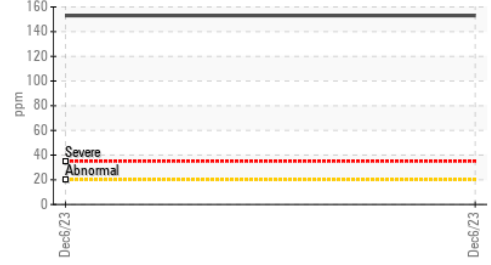
## Aluminum (ppm)



## Copper (ppm)



## Silicon (ppm)



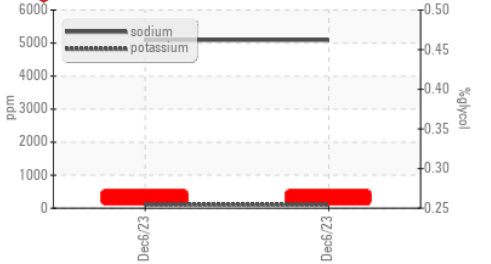
## Viscosity @ 100°C



## Viscosity @ 100°C



## Glycol Contamination



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0079078 **Received** : 07 Dec 2023  
**Lab Number** : 02601395 **Diagnosed** : 08 Dec 2023  
**Unique Number** : 5694480 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

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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