



Machine Id  
**INTERNATIONAL 521041**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

**RECOMMENDATION**

Vérifier le niveau du 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113461</b>	GFL0091139	---
Sample Date		Client Info		<b>29 Mar 2024</b>	02 Oct 2023	---
Machine Age	hrs	Client Info		<b>18606</b>	18323	---
Oil Age	hrs	Client Info		<b>283</b>	586	---
Filter Age	hrs	Client Info		<b>283</b>	586	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ATTENTION</b>	SEVERE	---

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>100	<b>91</b>	▲ 214	---
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	10	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	4	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

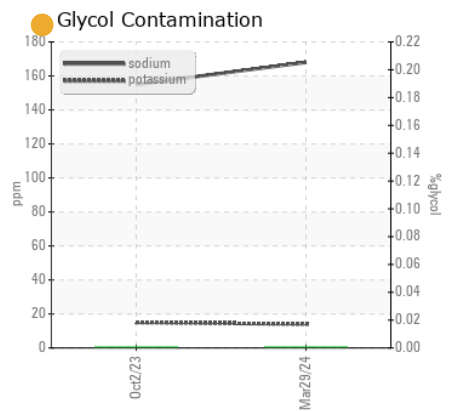
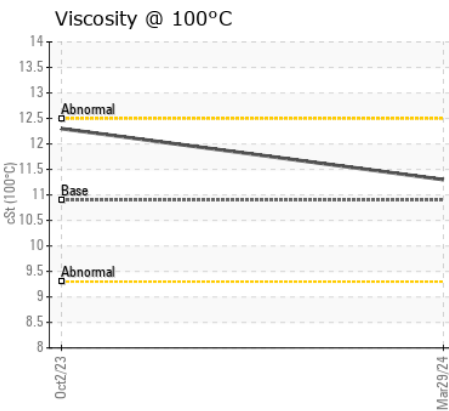
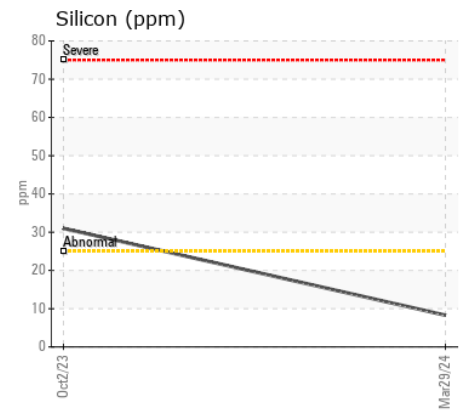
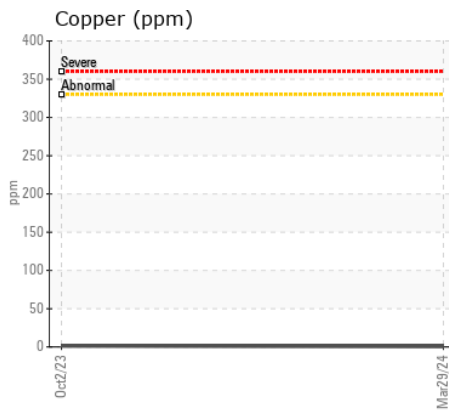
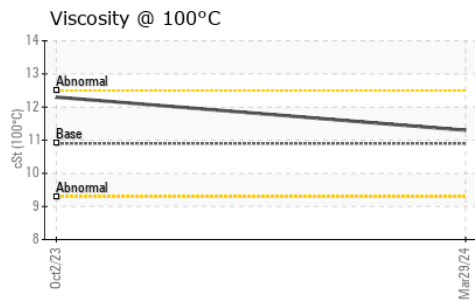
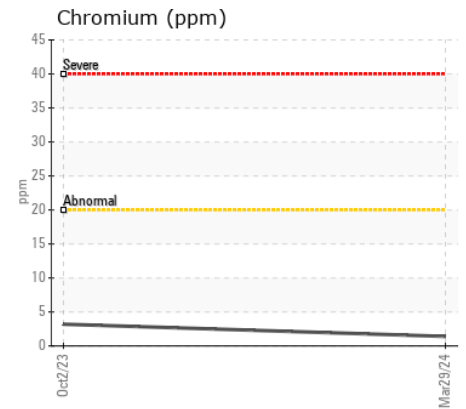
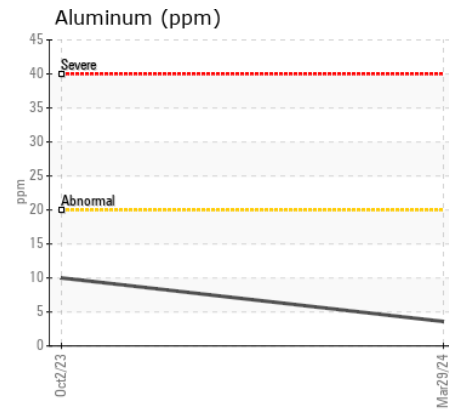
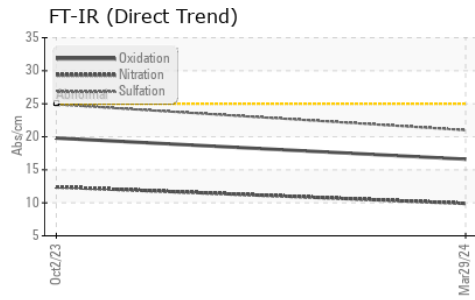
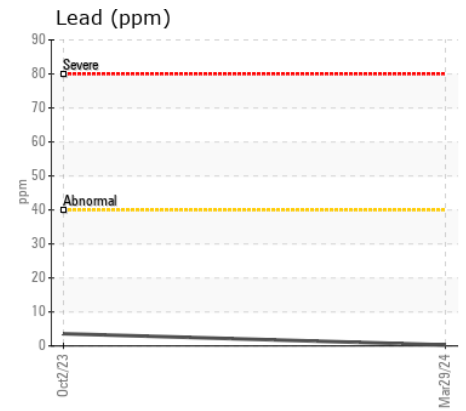
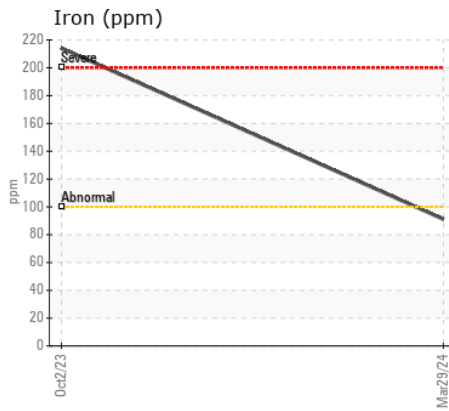
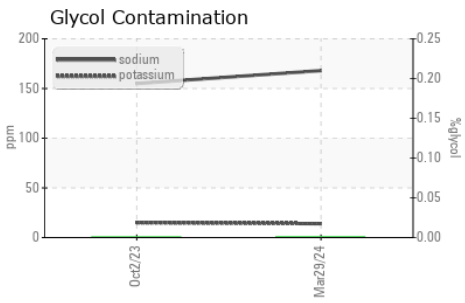
Des produits de traitement de l'eau sont présents, ce qui indique une fuite lente de fluide de refroidissement. Le test de glycol est négatif. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	▲ 31	---
Potassium	ppm	ASTM D5185(m)	>20	<b>14</b>	15	---
Fuel		WC Method	>2.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	---
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	1.3	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	12.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.0</b>	24.9	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

L'état de l'huile est acceptable pour la durée de service (voir recommandation).

Sodium	ppm	ASTM D5185(m)		● <b>168</b>	155	---
Boron	ppm	ASTM D5185(m)	250	<b>14</b>	22	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>83</b>	85	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	1	---
Magnesium	ppm	ASTM D5185(m)	450	<b>898</b>	823	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1047</b>	1245	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>967</b>	934	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1145</b>	1148	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2505</b>	2456	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.6</b>	19.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>11.3</b>	12.3	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113461 **Received** : 08 Apr 2024  
**Lab Number** : 02627196 **Tested** : 09 Apr 2024  
**Unique Number** : 5760328 **Diagnosed** : 09 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**GFL Environmental 791MAT - Matane**  
 29 rue Brilliant  
 Matane, QC  
 CA G4W 0J7  
 Contact: B Berube  
 bberube@matrec.ca

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.