



Machine Id  
**WL0056**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

**RECOMMENDATION**

Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. 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>GFL0067515</b>	GFL0067491	GFL0071885
Sample Date		Client Info		<b>27 Feb 2024</b>	01 Sep 2023	19 Jul 2023
Machine Age	hrs	Client Info		<b>0</b>	17700	17361
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

Usure de cylindre, de vilebrequin ou d'arbre à cames.

PQ		ASTM D8184*	>50	<b>0</b>	---	---
Iron	ppm	ASTM D5185(m)	>51	<b>▲ 88</b>	25	29
Chromium	ppm	ASTM D5185(m)	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>31	<b>4</b>	2	1
Lead	ppm	ASTM D5185(m)	>26	<b>3</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<b>3</b>	<1	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

Légère concentration de carbone/suie dans l'huile. La teneur en eau est négligeable.

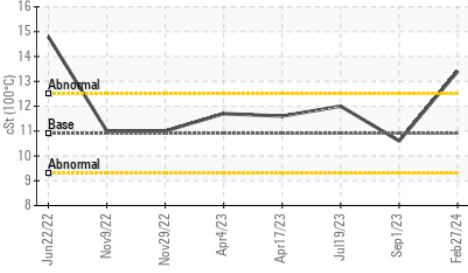
Silicon	ppm	ASTM D5185(m)	>22	<b>4</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water	%	ASTM D6304*	>0.21	<b>0.159</b>	---	---
ppm Water	ppm	ASTM D6304*	>2100	<b>1593</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>▲ 3.8</b>	1.1	1.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.4</b>	6.4	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.7</b>	20.6	20.5
Emulsified Water	scalar	Visual*	>0.21	<b>.2%</b>	NEG	NEG

**FLUID CONDITION**

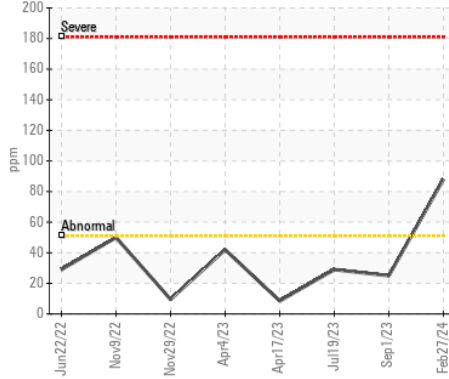
La viscosité de l'huile est supérieure à la normale. La viscosité de l'échantillon se situe dans la portée de l'SAE 40; nous vous conseillons de vérifier. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>58</b>	52	58
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>926</b>	852	963
Calcium	ppm	ASTM D5185(m)	3000	<b>1214</b>	1245	1099
Phosphorus	ppm	ASTM D5185(m)	1150	<b>992</b>	1040	1054
Zinc	ppm	ASTM D5185(m)	1350	<b>1195</b>	1149	1173
Sulfur	ppm	ASTM D5185(m)	4250	<b>2527</b>	2583	2516
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.1</b>	12.3	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>▲ 13.4</b>	10.6	12.0

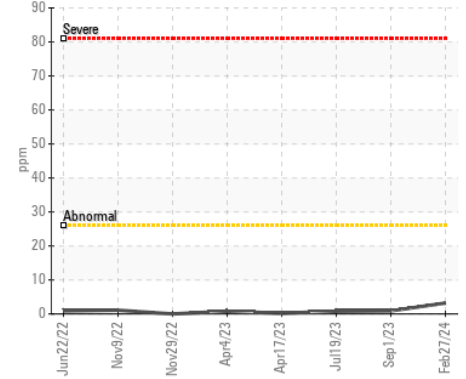
▲ Viscosity @ 100°C



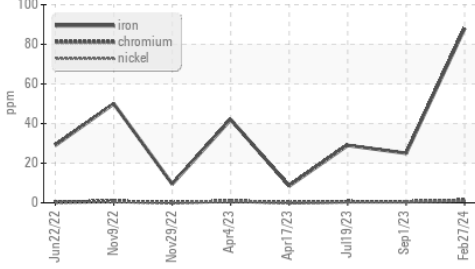
▲ Iron (ppm)



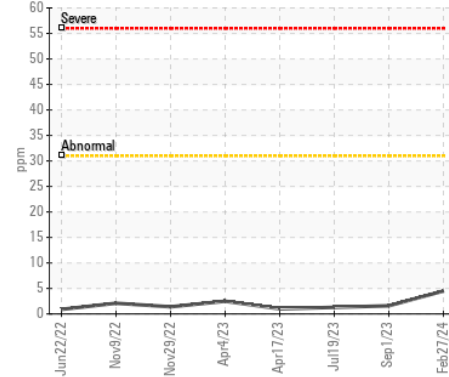
▲ Lead (ppm)



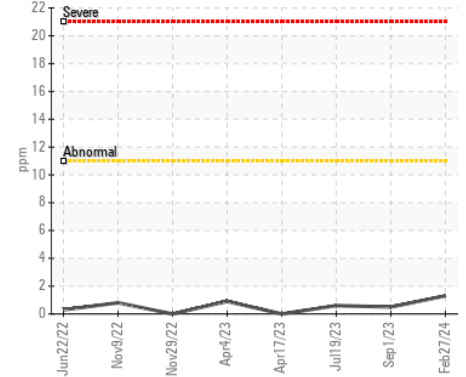
▲ Ferrous Alloys



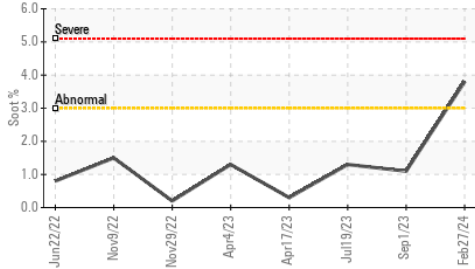
▲ Aluminum (ppm)



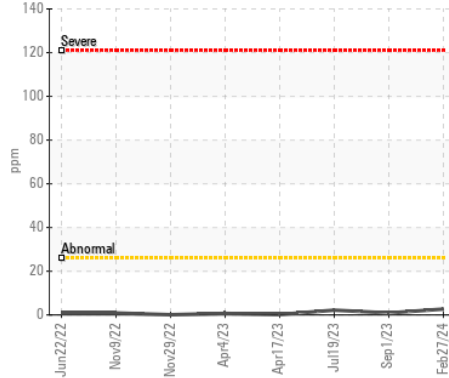
▲ Chromium (ppm)



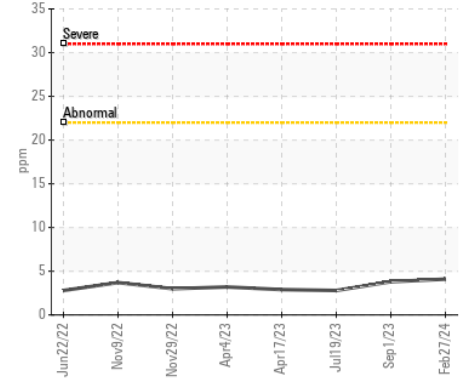
▲ Soot %



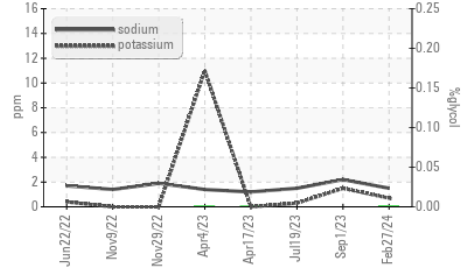
▲ Copper (ppm)



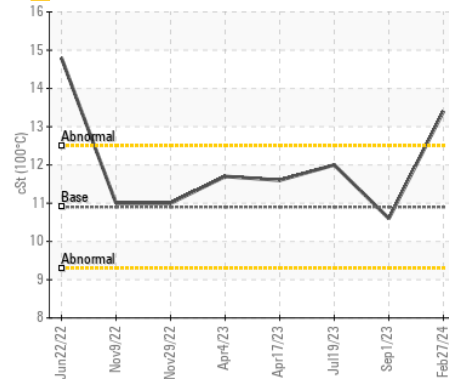
▲ Silicon (ppm)



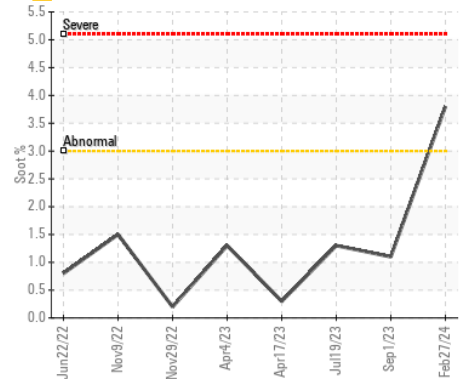
▲ Glycol Contamination



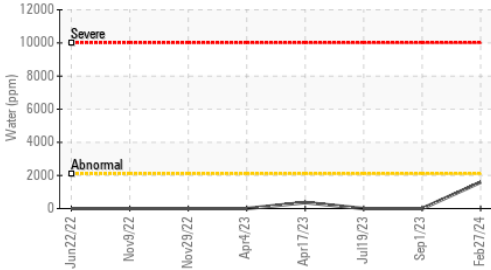
▲ Viscosity @ 100°C



▲ Soot %



▲ Water (KF)



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0067515  
**Lab Number** : 02618617  
**Unique Number** : 5735727  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF, PQ )

**GFL Environmental - 743 - Montreal Est CD Processing**  
 10930 rue Sherbrooke  
 Montreal, QC  
 CA H1B 1B4  
 Contact: Patrick Beaulieu  
 patrick.beaulieu@gflenv.com

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.

T:  
F: