



Machine Id  
**WL0054**  
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>GFL0119164</b>	GFL0118352	GFL0118340
Sample Date		Client Info		<b>24 Jun 2024</b>	10 May 2024	08 Apr 2024
Machine Age	hrs	Client Info		<b>0</b>	22231	22063
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	SEVERE

**WEAR**

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

PQ		ASTM D8184*	>50	<b>0</b>	---	2
Iron	ppm	ASTM D5185(m)	>51	<b>▲ 59</b>	26	<b>▲ 116</b>
Chromium	ppm	ASTM D5185(m)	>11	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>5	<b>1</b>	<1	2
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>4</b>	2	7
Lead	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>26	<b>1</b>	<1	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

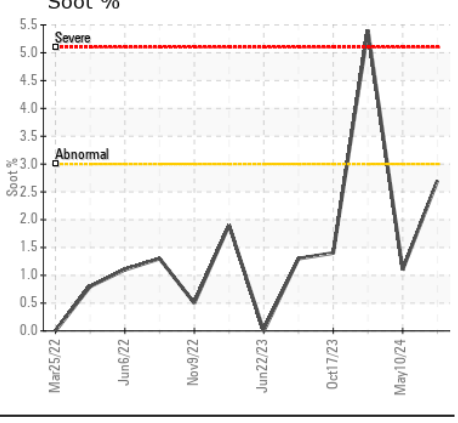
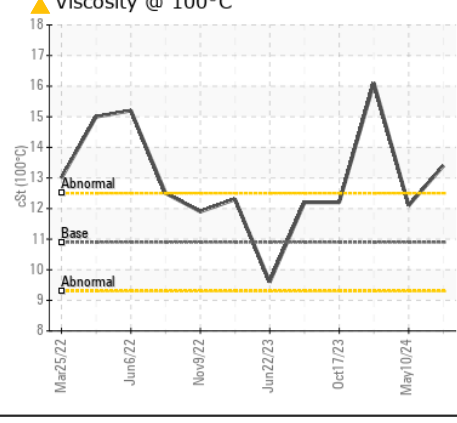
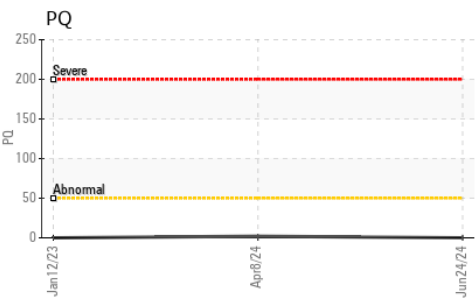
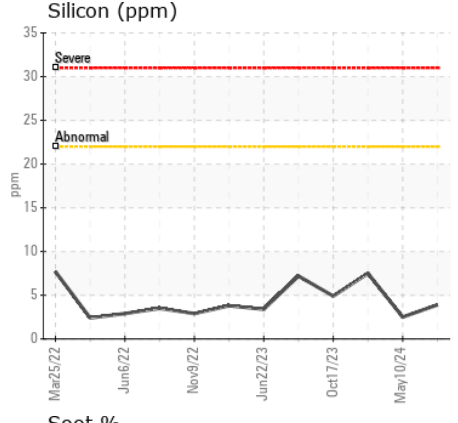
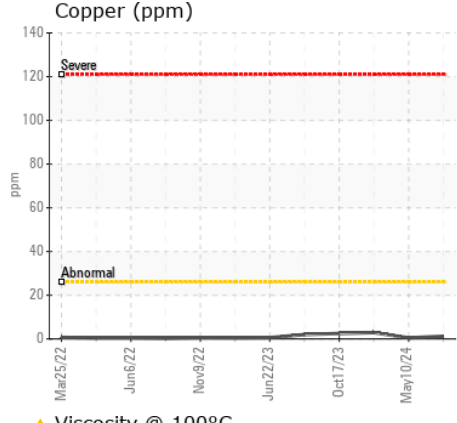
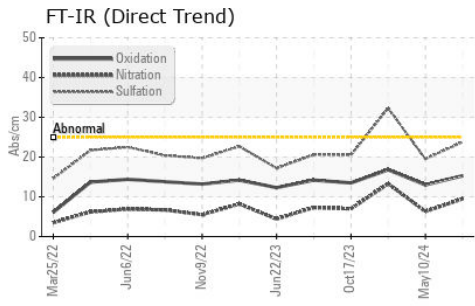
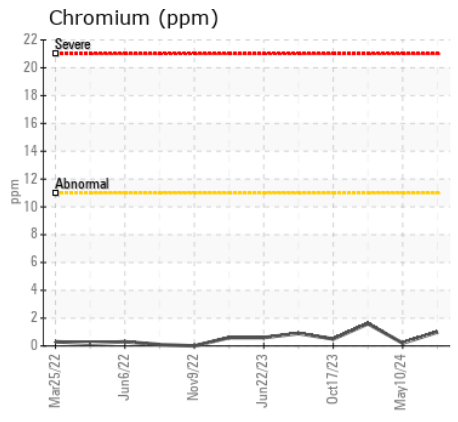
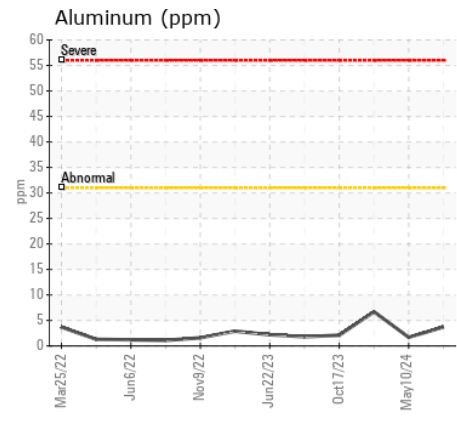
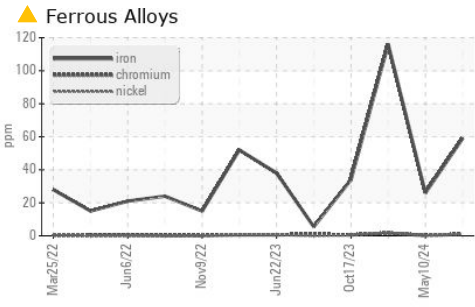
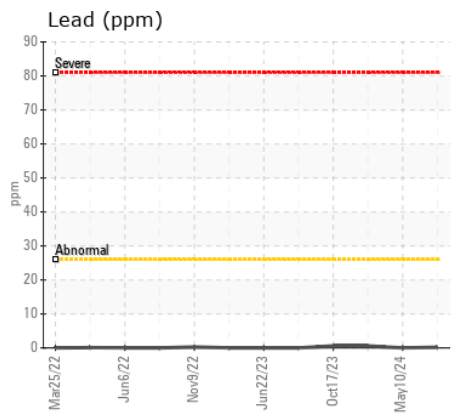
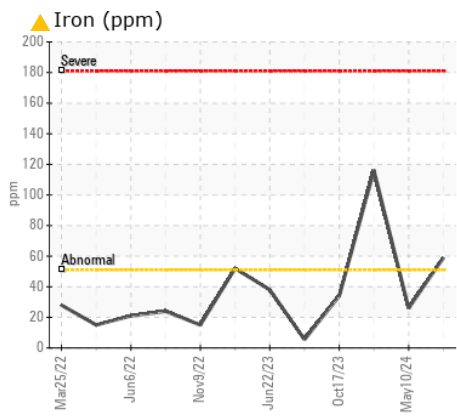
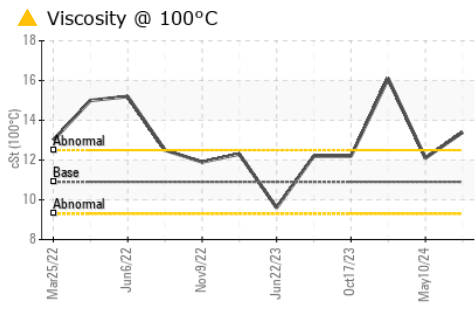
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>22	<b>4</b>	2	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>2.7</b>	1.1	<b>▲ 5.4</b>
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.5</b>	6.3	13.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.8</b>	19.5	32.3
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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>1</b>	2	3
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	2	3
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>59</b>	54	66
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>913</b>	857	988
Calcium	ppm	ASTM D5185(m)	3000	<b>1274</b>	1231	1229
Phosphorus	ppm	ASTM D5185(m)	1150	<b>997</b>	1006	1022
Zinc	ppm	ASTM D5185(m)	1350	<b>1234</b>	1150	1254
Sulfur	ppm	ASTM D5185(m)	4250	<b>2542</b>	2613	2393
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.3</b>	13.0	16.8
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>▲ 13.4</b>	12.1	<b>▲ 16.1</b>



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9    **GFL Environmental - 743 - Montreal Est CD Processing**  
**Sample No.** : GFL0119164    **Received** : 04 Jul 2024    10930 rue Sherbrooke  
**Lab Number** : 02645422    **Tested** : 05 Jul 2024    Montreal, QC  
**Unique Number** : 5802961    **Diagnosed** : 05 Jul 2024 - Kevin Marson    CA H1B 1B4  
**Test Package** : MOB 1 ( Additional Tests: PQ )    Contact: Patrick Beaulieu  
 To discuss this sample report, contact Customer Service at 1-800-268-2131.    patrick.beaulieu@gflenv.com  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.    T:  
 Validity of results and interpretation are based on the sample and information as supplied.    F: