



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**WL0055**  
 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. Veuillez préciser la marque et le modèle du composant lors du prochain échantillon.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118316</b>	GFL0067527	GFL0067474
Sample Date		Client Info		<b>08 Apr 2024</b>	25 Mar 2024	17 Oct 2023
Machine Age	kms	Client Info		<b>15702</b>	15613	14365
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	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>	ABNORMAL	NORMAL

**WEAR**

Les taux de métaux sont typiques pour la période de rodage d'un nouveau composant.

Iron	ppm	ASTM D5185(m)	>100	<b>84</b>	78	45
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>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)	>20	<b>7</b>	6	3
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	<1	1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

Légère concentration de carbone/suie dans l'huile.

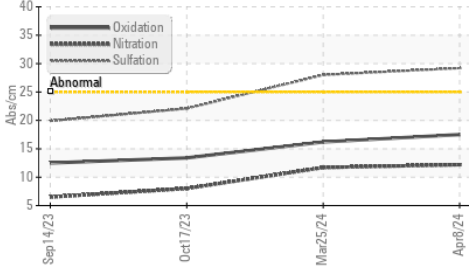
Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>▲ 4.7</b>	▲ 4.5	2.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.2</b>	11.7	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>29.2</b>	28.0	22.1
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

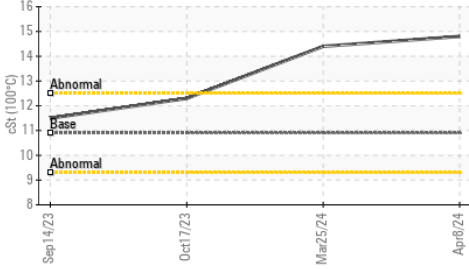
La viscosité de l'huile est supérieure à la normale. l'huile ne peut plus être utilisée en raison de la présence de contaminants.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	4	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>62</b>	61	59
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>928</b>	938	914
Calcium	ppm	ASTM D5185(m)	3000	<b>1197</b>	1212	1279
Phosphorus	ppm	ASTM D5185(m)	1150	<b>974</b>	992	1017
Zinc	ppm	ASTM D5185(m)	1350	<b>1190</b>	1206	1222
Sulfur	ppm	ASTM D5185(m)	4250	<b>2381</b>	2505	2588
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.5</b>	16.2	13.4
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>▲ 14.8</b>	▲ 14.4	12.3

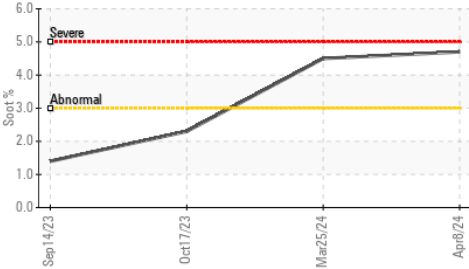
▲ FT-IR (Direct Trend)



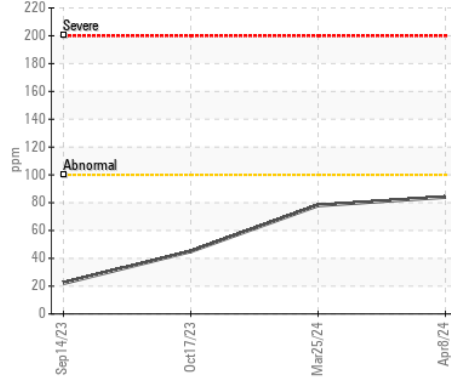
▲ Viscosity @ 100°C



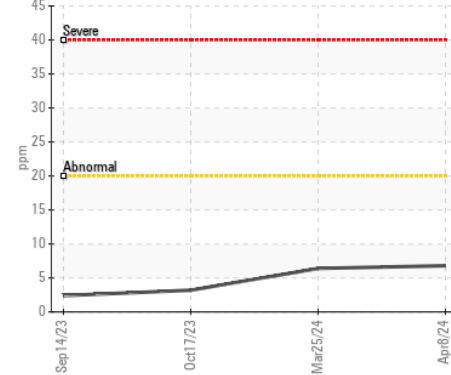
▲ Soot %



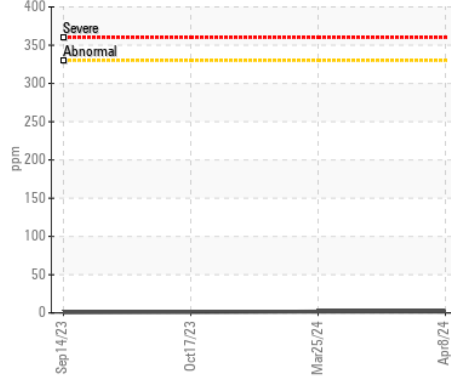
Iron (ppm)



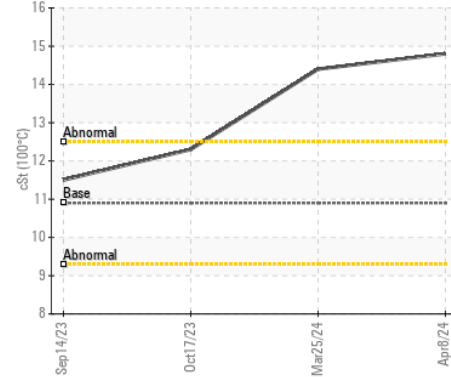
Aluminum (ppm)



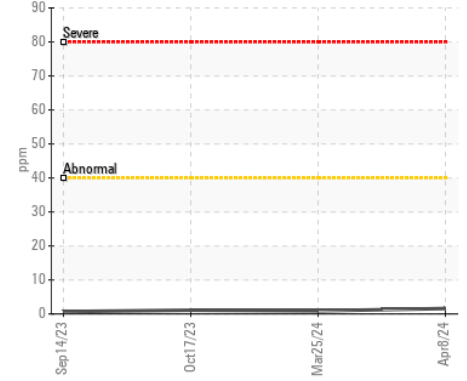
Copper (ppm)



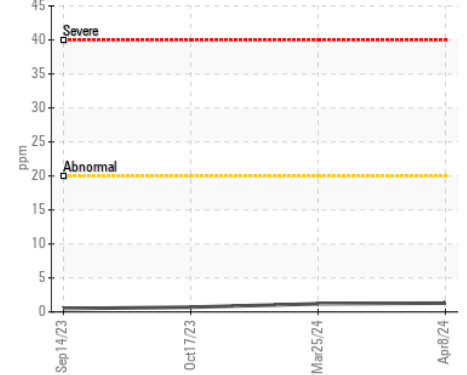
▲ Viscosity @ 100°C



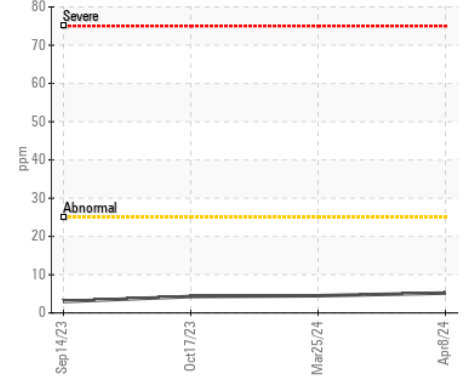
Lead (ppm)



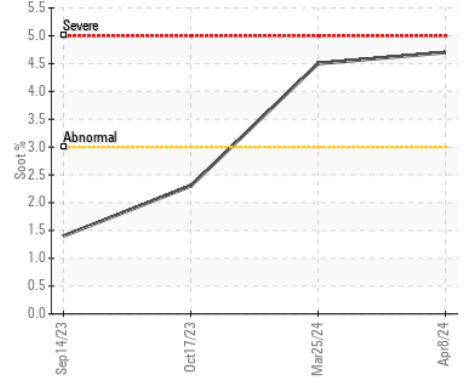
Chromium (ppm)



Silicon (ppm)



▲ Soot %



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118316  
**Lab Number** : 02628071  
**Unique Number** : 5761203  
**Test Package** : MOB 1

**Received** : 11 Apr 2024  
**Tested** : 11 Apr 2024  
**Diagnosed** : 11 Apr 2024 - Wes Davis

**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: