



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



Machine Id  
**FREIGHTLINER 820059**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

**RECOMMENDATION**

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100796</b>	GFL0091104	GFL0080939
Sample Date		Client Info		<b>05 Jan 2024</b>	30 Oct 2023	19 Jun 2023
Machine Age	hrs	Client Info		<b>6542</b>	6172	5583
Oil Age	hrs	Client Info		<b>370</b>	589	577
Filter Age	hrs	Client Info		<b>370</b>	589	577
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>80	<b>33</b>	71	36
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>7</b>	15	13
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>150	<b>2</b>	3	2
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

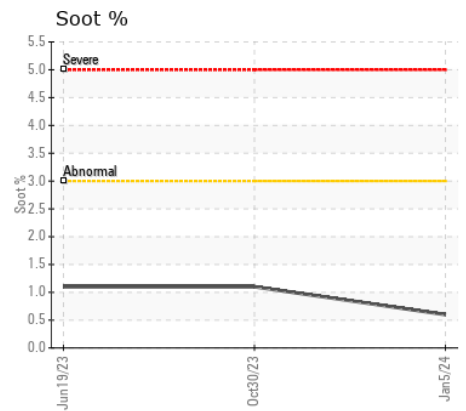
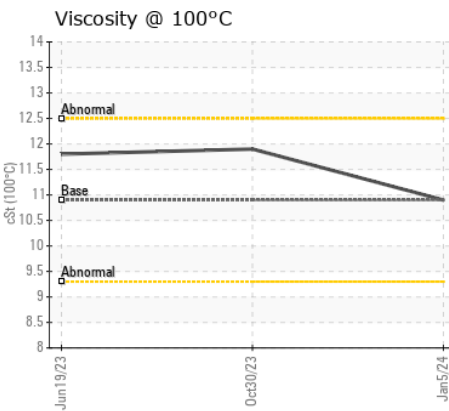
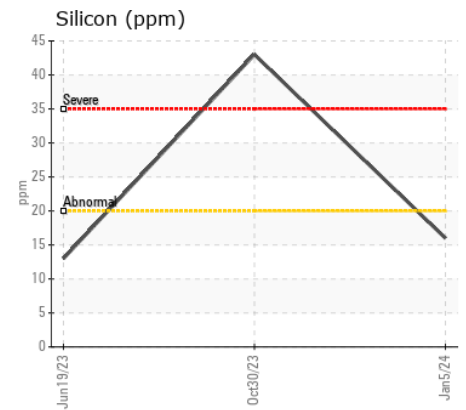
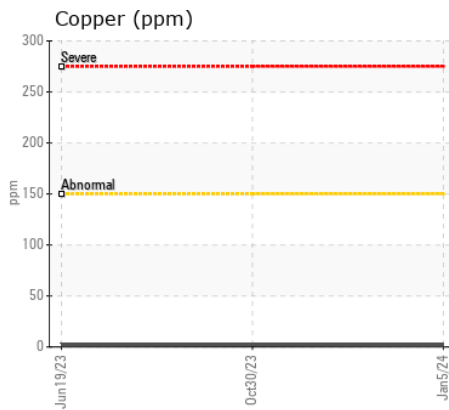
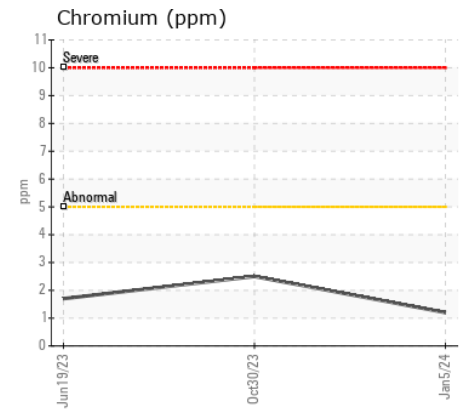
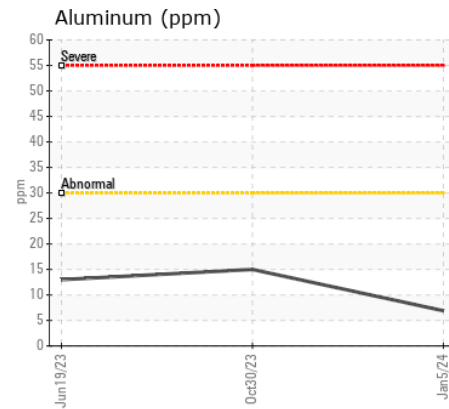
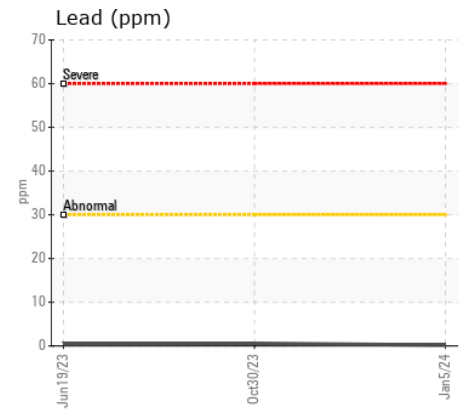
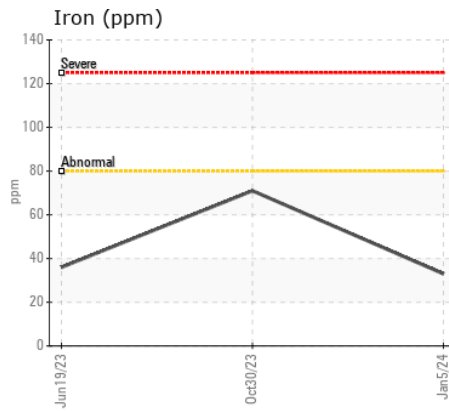
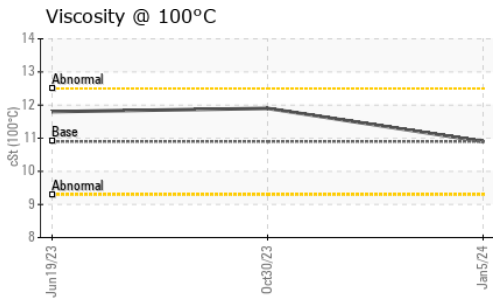
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>20	<b>16</b>	43	13
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	14	10
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>	0.0	NEG
Soot %	%	ASTM D7844*	>3	<b>0.6</b>	1.1	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.4</b>	10.1	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.0</b>	22.9	23.2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

L'état de l'huile est acceptable pour la durée de service.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	9	8
Boron	ppm	ASTM D5185(m)	250	<b>16</b>	83	32
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>63</b>	82	88
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>907</b>	888	890
Calcium	ppm	ASTM D5185(m)	3000	<b>1092</b>	1367	1263
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1001</b>	1088	1001
Zinc	ppm	ASTM D5185(m)	1350	<b>1151</b>	1329	1105
Sulfur	ppm	ASTM D5185(m)	4250	<b>2616</b>	2660	2382
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.7</b>	16.7	17.3
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>10.9</b>	11.9	11.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental 791MAT - Matane  
**Sample No.** : GFL0100796 **Received** : 12 Jan 2024  
**Lab Number** : 02608377 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 5709463 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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