



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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		PC0088227	GFL0100796	GFL0091104
Sample Date		Client Info		22 May 2024	05 Jan 2024	30 Oct 2023
Machine Age	hrs	Client Info		7231	6542	6172
Oil Age	hrs	Client Info		689	370	589
Filter Age	hrs	Client Info		689	370	589
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

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

Iron	ppm	ASTM D5185(m)	>80	50	33	71
Chromium	ppm	ASTM D5185(m)	>5	2	1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	10	7	15
Lead	ppm	ASTM D5185(m)	>30	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>150	2	2	3
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

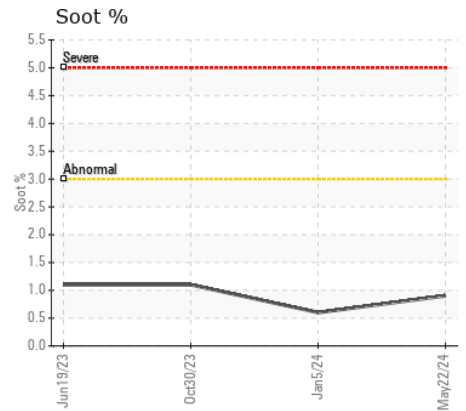
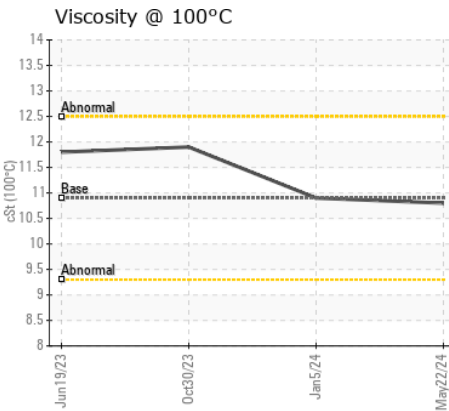
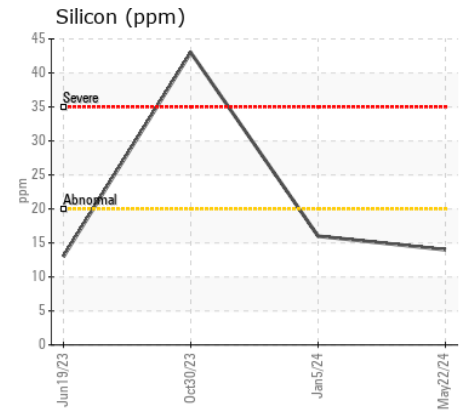
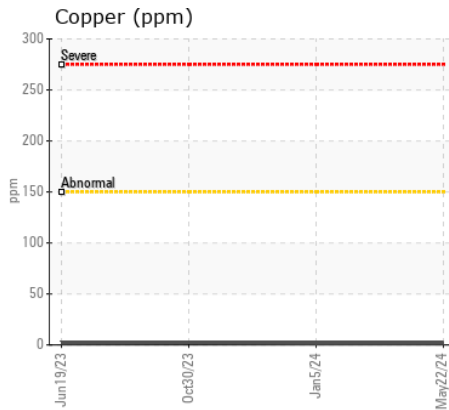
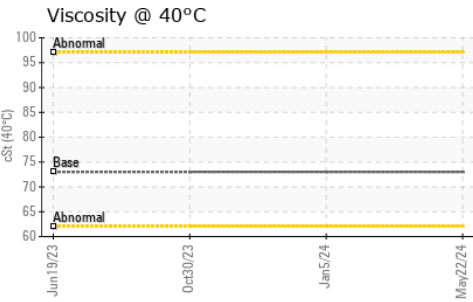
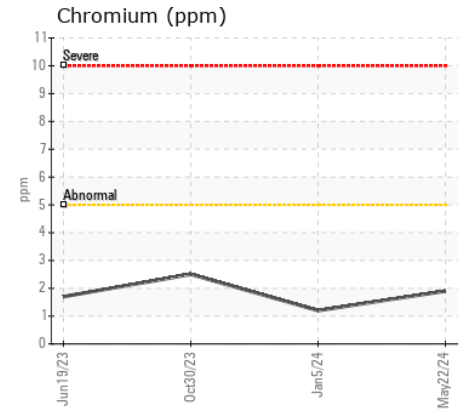
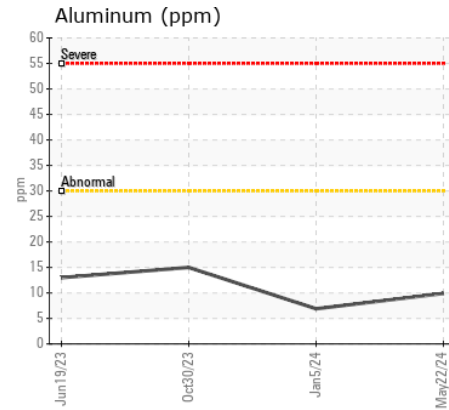
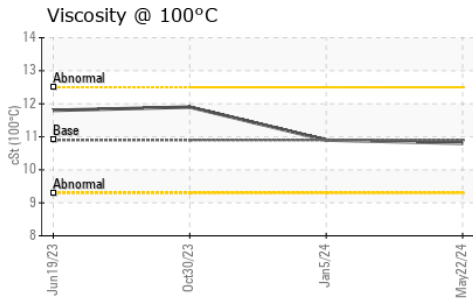
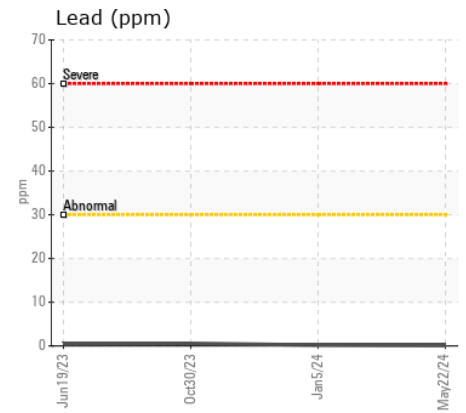
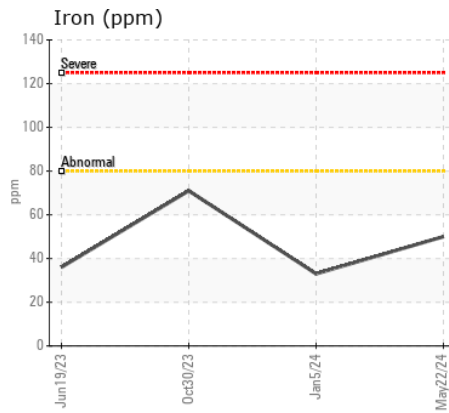
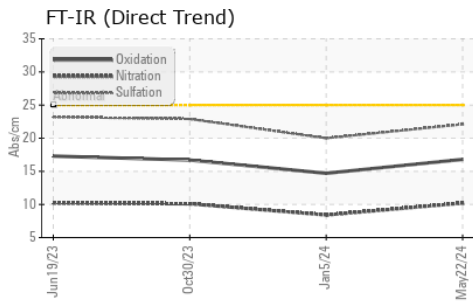
Il n'y a aucun indice de contamination dans l'huile.

Silicon	ppm	ASTM D5185(m)	>20	14	16	▲ 43
Potassium	ppm	ASTM D5185(m)	>20	7	5	14
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.9	0.6	1.1
Nitration	Abs/cm	ASTM D7624*	>20	10.2	8.4	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	20.0	22.9
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		9	5	9
Boron	ppm	ASTM D5185(m)	250	8	16	83
Barium	ppm	ASTM D5185(m)	10	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	63	63	82
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	450	960	907	888
Calcium	ppm	ASTM D5185(m)	3000	1082	1092	1367
Phosphorus	ppm	ASTM D5185(m)	1150	990	1001	1088
Zinc	ppm	ASTM D5185(m)	1350	1205	1151	1329
Sulfur	ppm	ASTM D5185(m)	4250	2410	2616	2660
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.8	14.7	16.7
Visc @ 40°C	cSt	ASTM D7279(m)	73	69.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	10.8	10.9	11.9
Viscosity Index (VI)	Scale	ASTM D2270*	138	145	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088227
Lab Number : 02637391
Unique Number : 5786553
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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.

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