



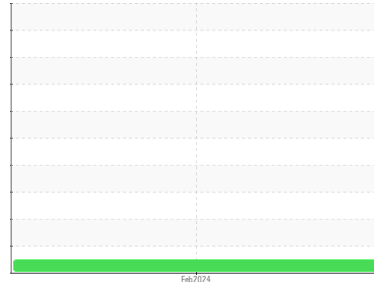
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
FREIGHTLINER 722054 (S/N 1FVHCYFE0NHMS5808)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0109559	---	---
Sample Date	Client Info		05 Feb 2024	---	---
Machine Age	kms	Client Info	3613	---	---
Oil Age	kms	Client Info	600	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>80	13	---	---
Chromium	ppm	ASTM D5185(m)	>5	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>30	2	---	---
Lead	ppm	ASTM D5185(m)	>30	0	---	---
Copper	ppm	ASTM D5185(m)	>150	<1	---	---
Tin	ppm	ASTM D5185(m)	>5	0	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	134	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	60	0	---	---
Manganese	ppm	ASTM D5185(m)	0	0	---	---
Magnesium	ppm	ASTM D5185(m)	1010	14	---	---
Calcium	ppm	ASTM D5185(m)	1070	2200	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	950	---	---
Zinc	ppm	ASTM D5185(m)	1270	1131	---	---
Sulfur	ppm	ASTM D5185(m)	2060	2983	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS

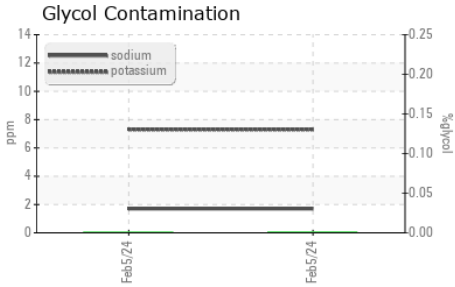
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	2	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Potassium	ppm	ASTM D5185(m)	>20	7	---	---
Glycol	%	ASTM D7922*		0.0	---	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.6	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	---	---



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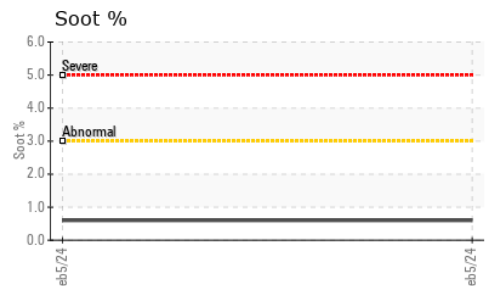
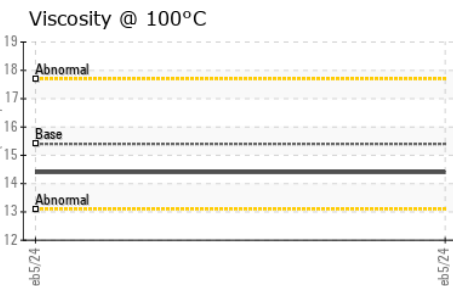
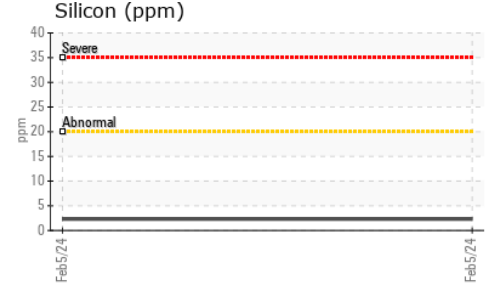
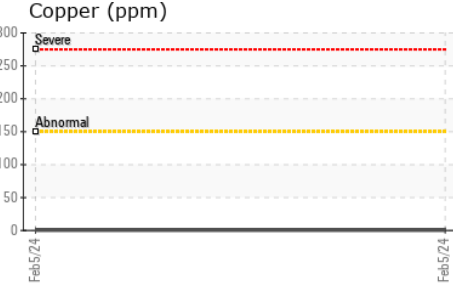
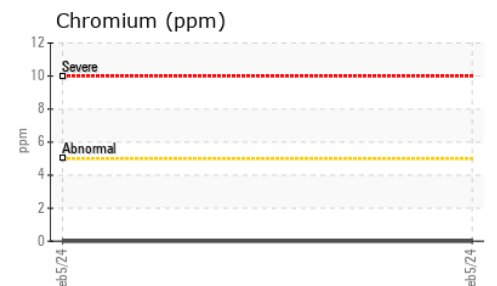
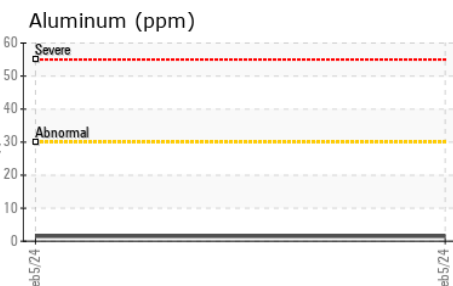
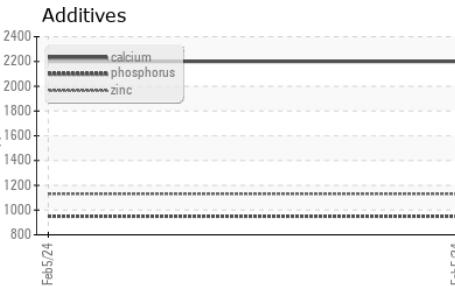
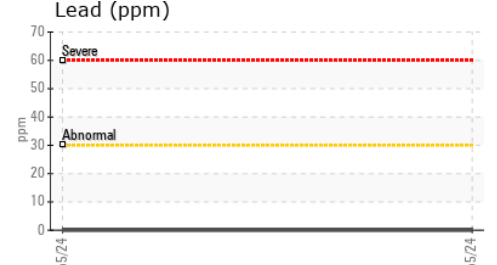
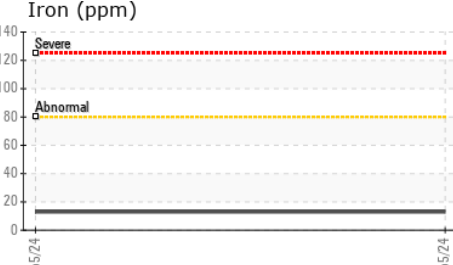
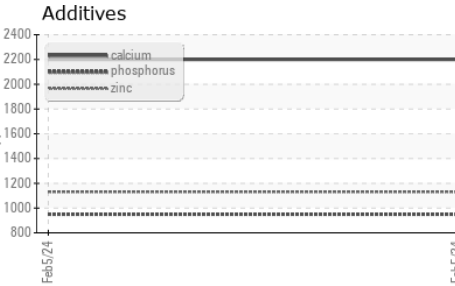


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	17.6	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.4	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental Inc. - 536 - Fort frances**
Sample No. : GFL0109559 **Received** : 13 Feb 2024 **Fire #174 Hwy 11/71**
Lab Number : 02615302 **Tested** : 13 Feb 2024 **Fort Frances, ON**
Unique Number : 5724397 **Diagnosed** : 13 Feb 2024 - Wes Davis **CA P9A 3M2**
Test Package : MOB 1 (Additional Tests: Glycol) **Contact: Jodi Holden**
Tested at external lab. **jholden@gflenv.com**
Validity of results and interpretation are based on the sample and information as supplied. **T: (807)274-6255**
F:

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.