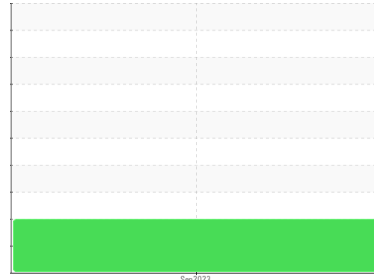




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
401110
 Component
Diesel Engine
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0084091	---	---
Sample Date	Client Info	25 Sep 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	56	---	---
Chromium	ppm ASTM D5185(m) >20	2	---	---
Nickel	ppm ASTM D5185(m) >4	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >3	<1	---	---
Aluminum	ppm ASTM D5185(m) >20	2	---	---
Lead	ppm ASTM D5185(m) >40	1	---	---
Copper	ppm ASTM D5185(m) >330	1	---	---
Tin	ppm ASTM D5185(m) >15	<1	---	---
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)	3	---	---
Barium	ppm ASTM D5185(m)	0	---	---
Molybdenum	ppm ASTM D5185(m)	54	---	---
Manganese	ppm ASTM D5185(m)	0	---	---
Magnesium	ppm ASTM D5185(m)	847	---	---
Calcium	ppm ASTM D5185(m)	930	---	---
Phosphorus	ppm ASTM D5185(m)	861	---	---
Zinc	ppm ASTM D5185(m)	1051	---	---
Sulfur	ppm ASTM D5185(m)	2127	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	9	---	---
Sodium	ppm ASTM D5185(m)	12	---	---
Potassium	ppm ASTM D5185(m) >20	4	---	---
Fuel	% ASTM D7593* >5	12.2	---	---

INFRA-RED

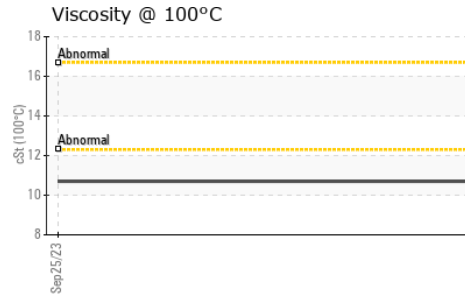
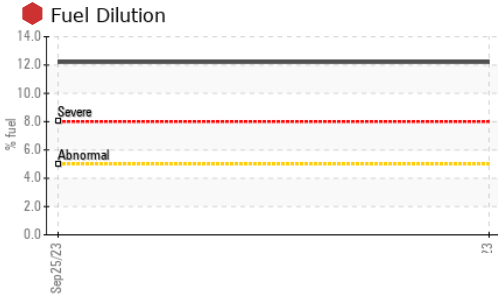
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	1.2	---	---
Nitration	Abs/cm ASTM D7624* >20	11.9	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	27.0	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	28.3	---	---



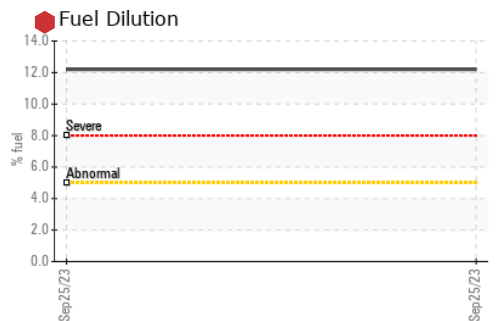
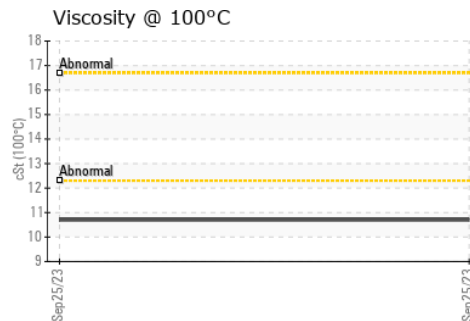
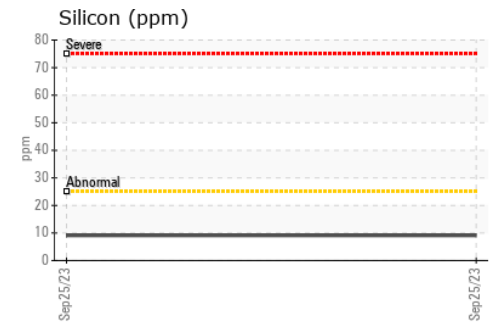
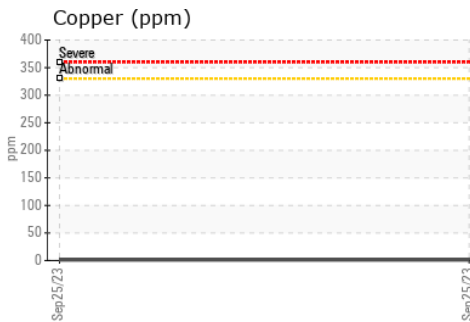
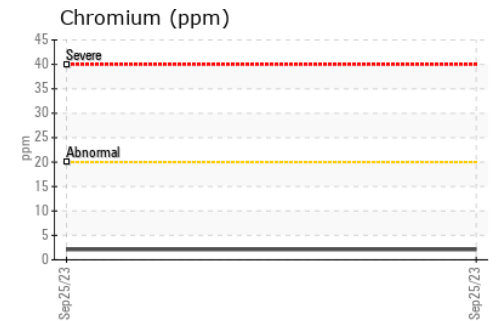
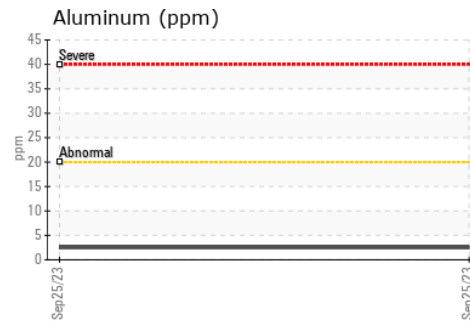
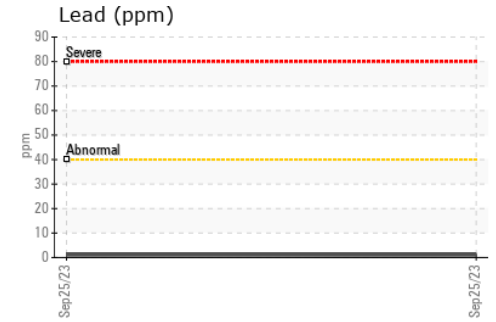
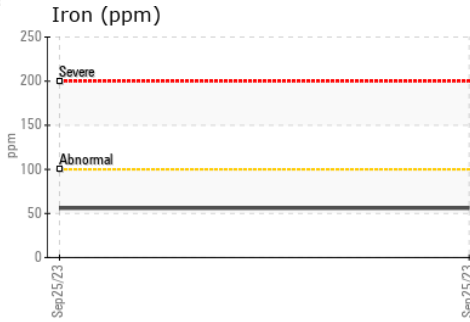
OIL ANALYSIS REPORT



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)		10.7	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet
Sample No. : GFL0084091 **Received** : 24 Oct 2023
Lab Number : 02591282 **Diagnosed** : 25 Oct 2023
Unique Number : 5668361 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

70 Golden Drive,
 Coquitlam, BC
 CA V3K 6B5
 Contact: Gary Ewasiuk
 gewasiuk@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: