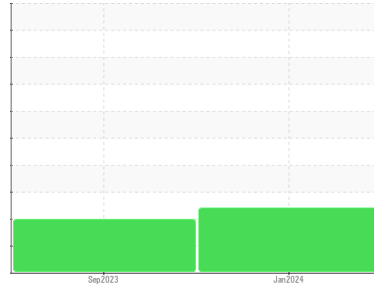




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
401110

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- 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. 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

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0096723	GFL0084091	---
Sample Date	Client Info	08 Jan 2024	25 Sep 2023	---
Machine Age	hrs	30726	0	---
Oil Age	hrs	600	0	---
Oil Changed	Client Info	N/A	N/A	---
Sample Status		SEVERE	SEVERE	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	39	56	---
Chromium	ppm ASTM D5185(m) >20	2	2	---
Nickel	ppm ASTM D5185(m) >4	<1	<1	---
Titanium	ppm ASTM D5185(m)	0	0	---
Silver	ppm ASTM D5185(m) >3	0	<1	---
Aluminum	ppm ASTM D5185(m) >20	3	2	---
Lead	ppm ASTM D5185(m) >40	<1	1	---
Copper	ppm ASTM D5185(m) >330	<1	1	---
Tin	ppm ASTM D5185(m) >15	0	<1	---
Antimony	ppm ASTM D5185(m)	0	0	---
Vanadium	ppm ASTM D5185(m)	0	0	---
Beryllium	ppm ASTM D5185(m)	0	0	---
Cadmium	ppm ASTM D5185(m)	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	2	3	---
Barium	ppm ASTM D5185(m) 0	0	0	---
Molybdenum	ppm ASTM D5185(m) 60	51	54	---
Manganese	ppm ASTM D5185(m) 0	0	0	---
Magnesium	ppm ASTM D5185(m) 1010	791	847	---
Calcium	ppm ASTM D5185(m) 1070	889	930	---
Phosphorus	ppm ASTM D5185(m) 1150	831	861	---
Zinc	ppm ASTM D5185(m) 1270	967	1051	---
Sulfur	ppm ASTM D5185(m) 2060	2266	2127	---
Lithium	ppm ASTM D5185(m)	<1	<1	---

CONTAMINANTS

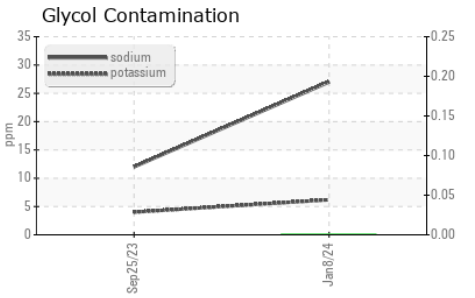
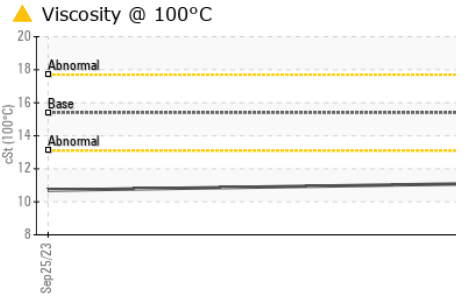
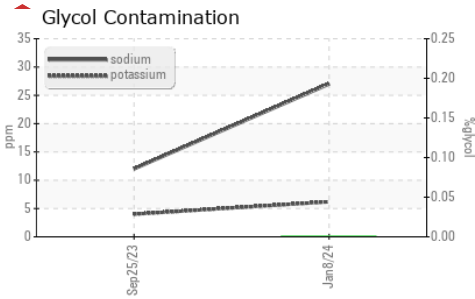
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	4	9	---
Sodium	ppm ASTM D5185(m)	27	12	---
Potassium	ppm ASTM D5185(m) >20	6	4	---
Fuel	% ASTM D7593* >5	10.5	12.2	---
Glycol	% ASTM D7922*	0.0	NEG	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	1.3	1.2	---
Nitration	Abs/cm ASTM D7624* >20	13.0	11.9	---
Sulfation	Abs.1mm ASTM D7415* >30	26.1	27.0	---



OIL ANALYSIS REPORT

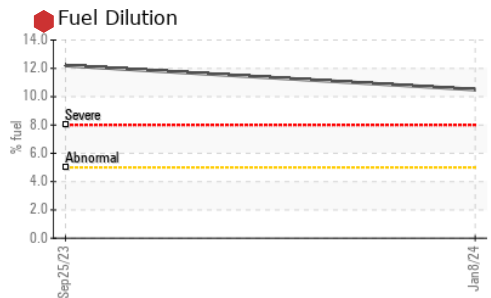
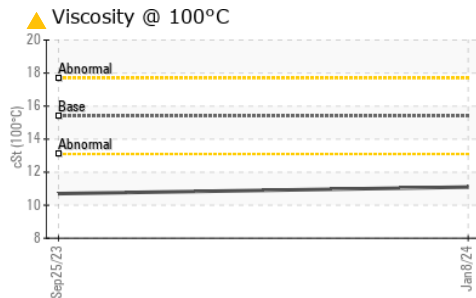
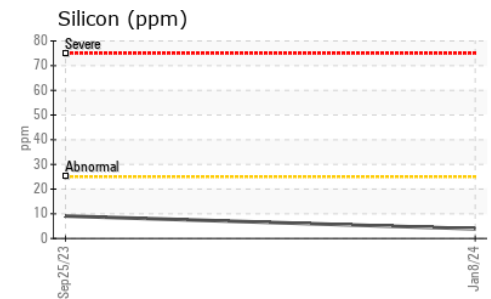
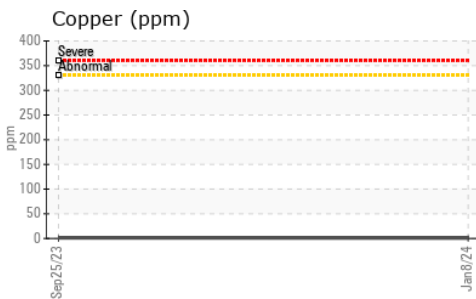
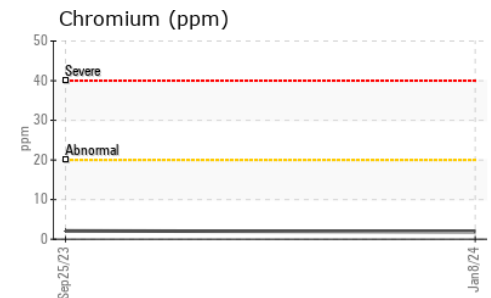
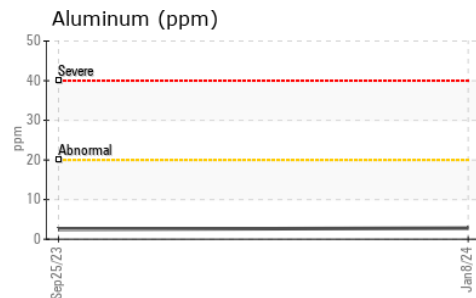
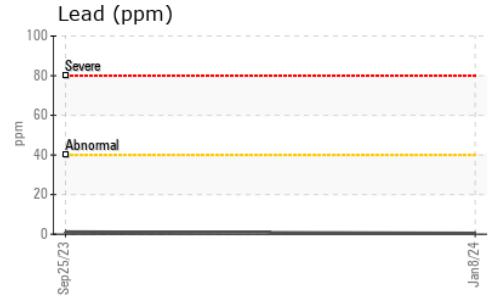
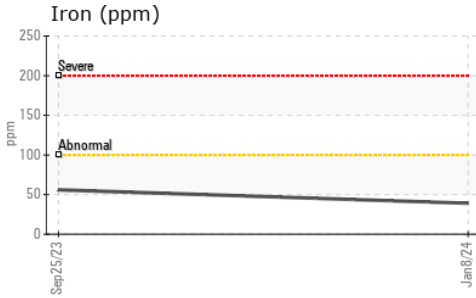


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	27.2	28.3	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 11.1	10.7	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet
Sample No. : GFL0096723 **Received** : 18 Jan 2024
Lab Number : 02609632 **Diagnosed** : 19 Jan 2024
Unique Number : 5710718 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel)

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.

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

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F: