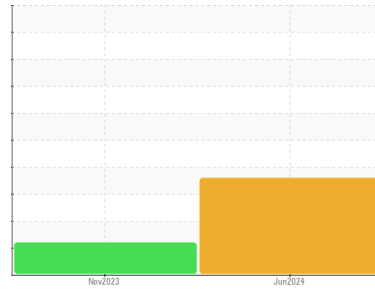




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

250027

Component

Gasoline Engine

Fluid

PETRO CANADA DURON UHP 10W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear

Silver ppm levels are abnormal.

▲ 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 as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0100581	GFL0100636	---
Sample Date	Client Info		11 Jun 2024	25 Nov 2023	---
Machine Age	kms	Client Info	177994	146554	---
Oil Age	kms	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			SEVERE	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >150	52	87	---
Chromium	ppm	ASTM D5185(m) >20	2	3	---
Nickel	ppm	ASTM D5185(m) >5	0	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m) >2	▲ 2	<1	---
Aluminum	ppm	ASTM D5185(m) >40	2	3	---
Lead	ppm	ASTM D5185(m) >50	0	<1	---
Copper	ppm	ASTM D5185(m) >155	2	2	---
Tin	ppm	ASTM D5185(m) >10	0	0	---
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) 2	1	3	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 60	51	48	---
Manganese	ppm	ASTM D5185(m) 0	<1	<1	---
Magnesium	ppm	ASTM D5185(m) 1010	819	751	---
Calcium	ppm	ASTM D5185(m) 1070	880	877	---
Phosphorus	ppm	ASTM D5185(m) 1150	834	803	---
Zinc	ppm	ASTM D5185(m) 1270	991	977	---
Sulfur	ppm	ASTM D5185(m) 2060	1971	1999	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

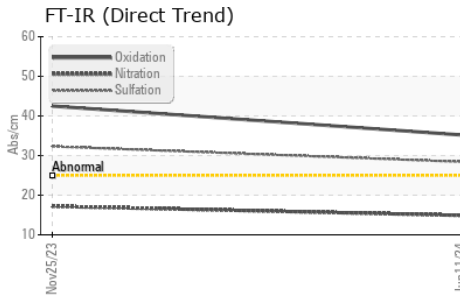
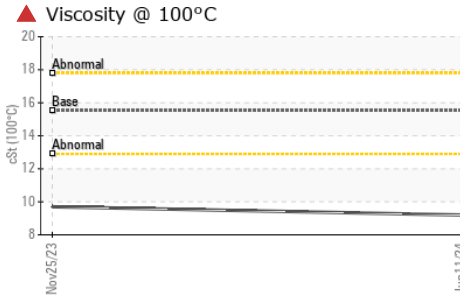
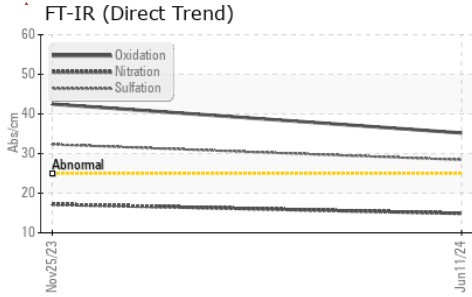
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	6	9	---
Sodium	ppm	ASTM D5185(m) >400	12	3	---
Potassium	ppm	ASTM D5185(m) >20	7	<1	---
Fuel	%	ASTM D7593* >4.0	▲ 24.6	▲ 2.4	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0.6	0.7	---
Nitration	Abs/cm	ASTM D7624* >20	14.9	17.2	---
Sulfation	Abs/.1mm	ASTM D7415* >30	28.4	32.3	---



OIL ANALYSIS REPORT

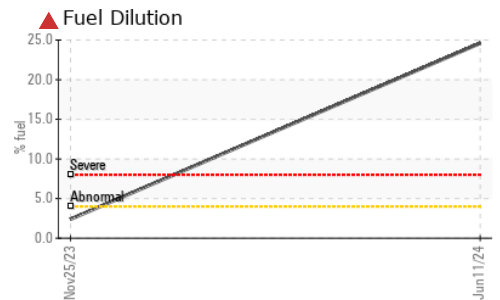
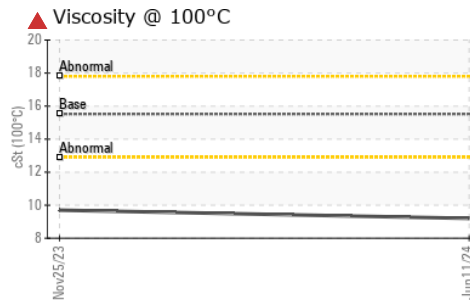
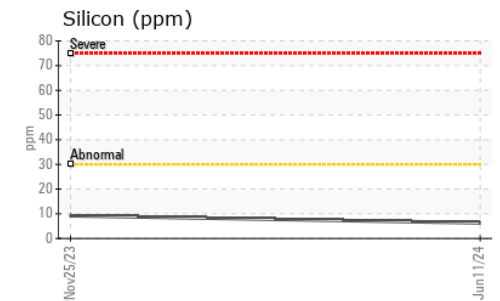
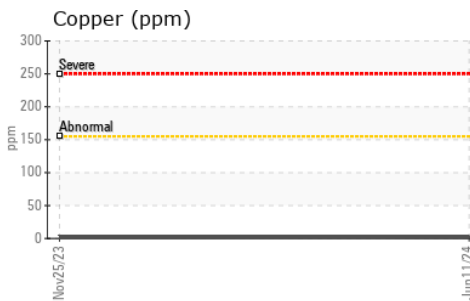
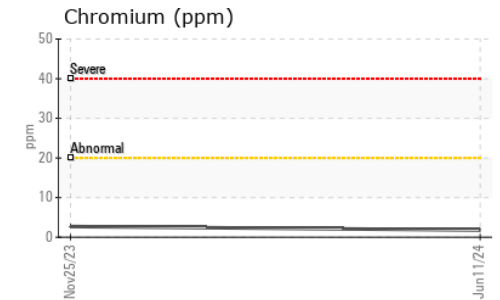
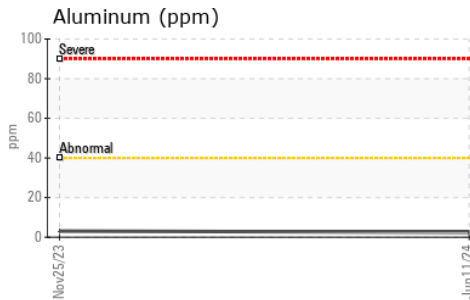
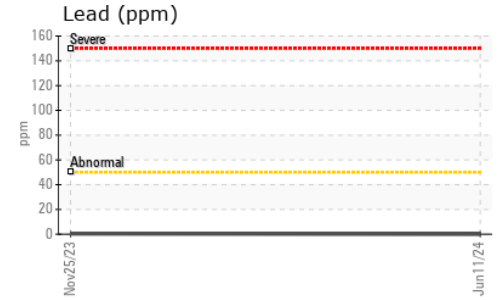
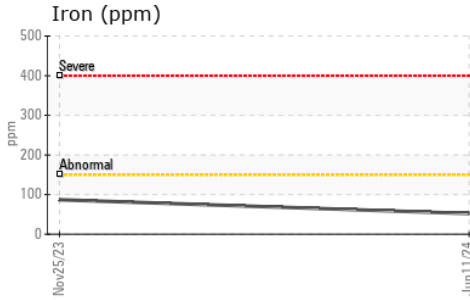


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/1mm	ASTM D7414*	>25	35.2	42.5	---

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)	15.52	▲ 9.2	▲ 9.7	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100581 **Received** : 13 Jun 2024
Lab Number : **02641582** **Tested** : 14 Jun 2024
Unique Number : 5799121 **Diagnosed** : 14 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 575 - Squamish Hauling
 38950 Queens Way,
 Squamish, BC
 CA V8B 0K8
 Contact: Dean Imbeau
 dimbeau@gflenv.com
 T: (604)892-5604
 F: (604)892-5238

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.