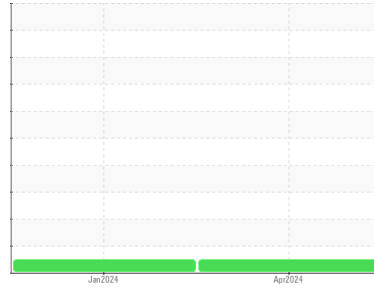




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

OR595

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0108215	GFL0108246	---
Sample Date	Client Info		12 Apr 2024	29 Jan 2024	---
Machine Age	hrs	Client Info	14147	13772	---
Oil Age	hrs	Client Info	0	250	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	---
Water	WC Method	>0.1	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>120	9	6	---
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>5	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	1	2	---
Lead	ppm	ASTM D5185(m)	>40	2	<1	---
Copper	ppm	ASTM D5185(m)	>300	<1	<1	---
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	1	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	59	56	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	950	984	925	---
Calcium	ppm	ASTM D5185(m)	1050	1064	1032	---
Phosphorus	ppm	ASTM D5185(m)	995	988	997	---
Zinc	ppm	ASTM D5185(m)	1180	1191	1140	---
Sulfur	ppm	ASTM D5185(m)	2600	2469	2682	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

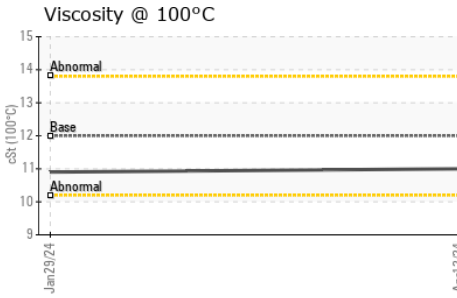
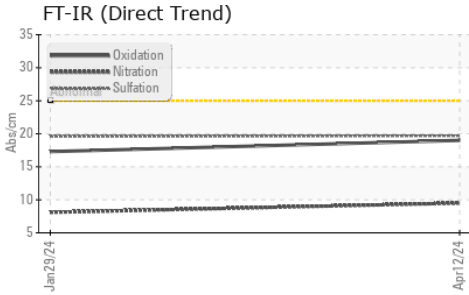
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	3	3	---
Sodium	ppm	ASTM D5185(m)		1	1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0.2	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.5	8.1	---
Sulfation	Abs./1mm	ASTM D7415*	>30	19.7	19.6	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	17.3	---

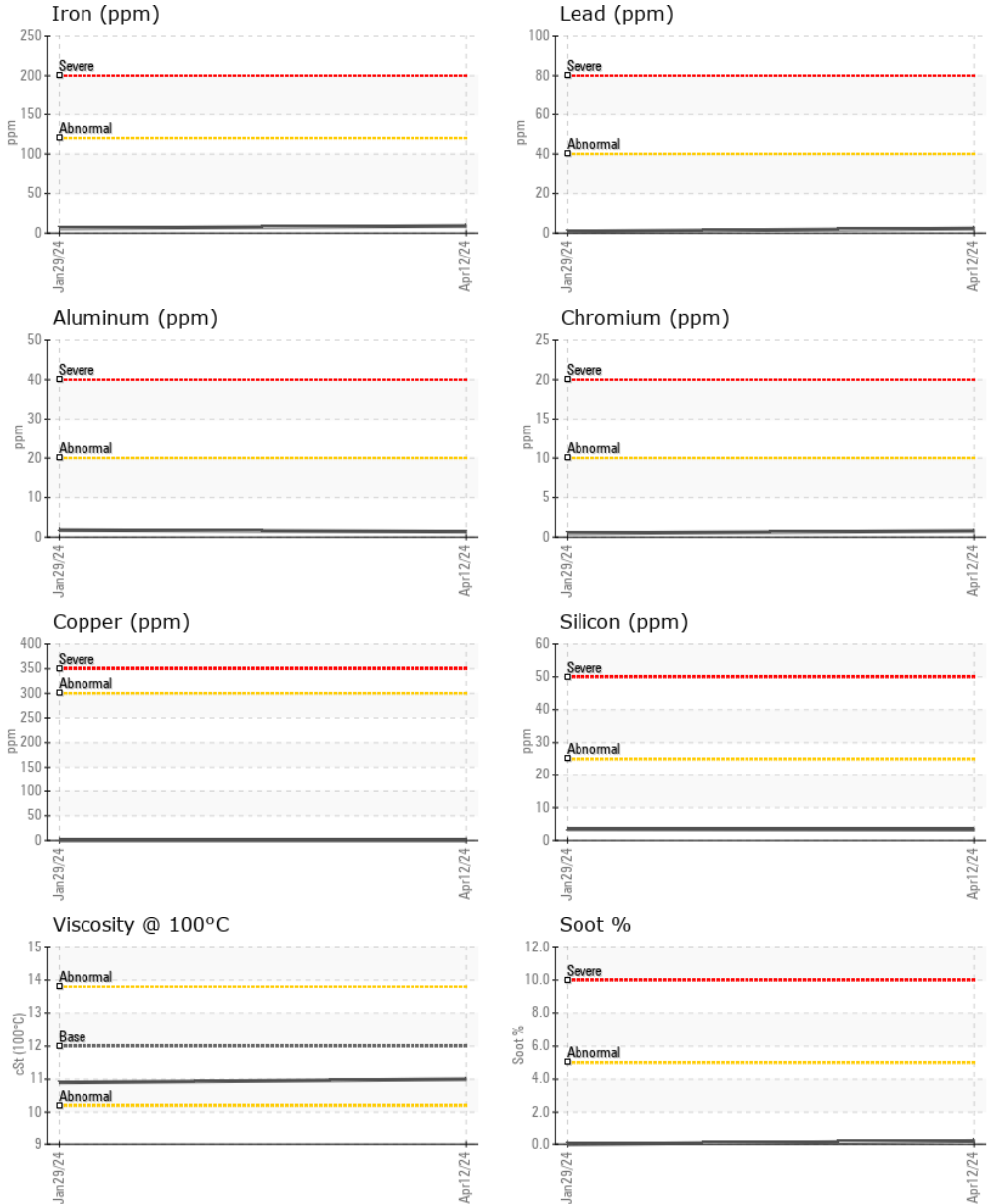
VISUAL

method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.1	NEG	---
Free Water	scalar Visual*		NEG	---

FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	12.00	11.0	10.9

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 355 - Saskatoon**
Sample No. : GFL0108215 **Received** : 24 Apr 2024 100 Cory Road
Lab Number : 02631094 **Tested** : 24 Apr 2024 Saskatoon, SK
Unique Number : 5772247 **Diagnosed** : 24 Apr 2024 - Wes Davis CA S7K 3J7
Test Package : MOB 1 Contact: Ryan Polichuk
 rpolichuk@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.

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 F: