



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
WL0424
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100613	GFL0077021	---
Sample Date		Client Info		12 May 2024	09 Aug 2023	---
Machine Age	kms	Client Info		6447	5470	---
Oil Age	kms	Client Info		1000	0	---
Filter Age	kms	Client Info		1000	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	36	37	---
Chromium	ppm	ASTM D5185(m)	>20	2	2	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	35	27	---
Lead	ppm	ASTM D5185(m)	>40	<1	4	---
Copper	ppm	ASTM D5185(m)	>330	33	170	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

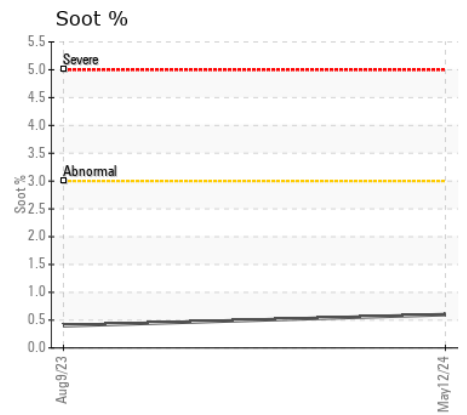
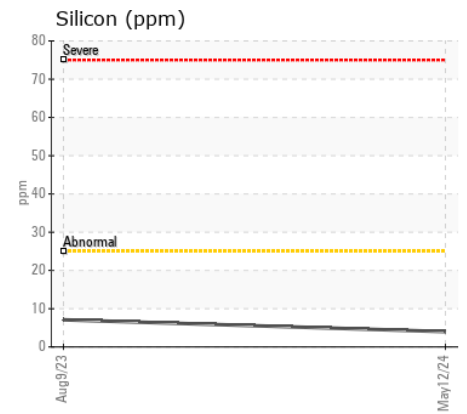
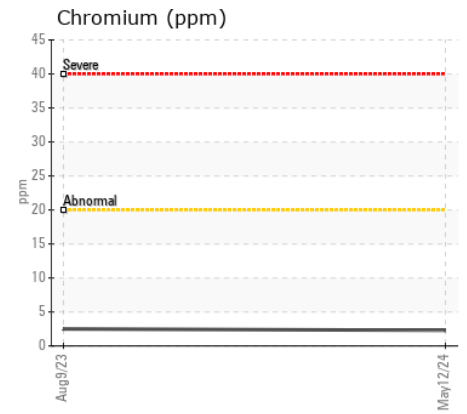
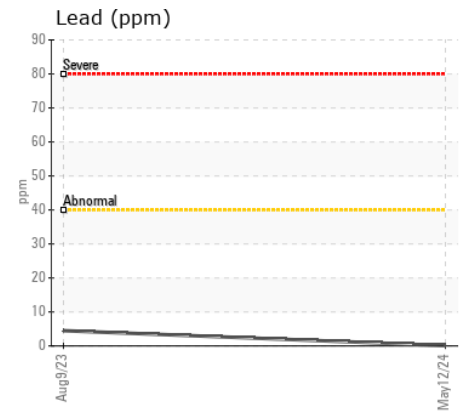
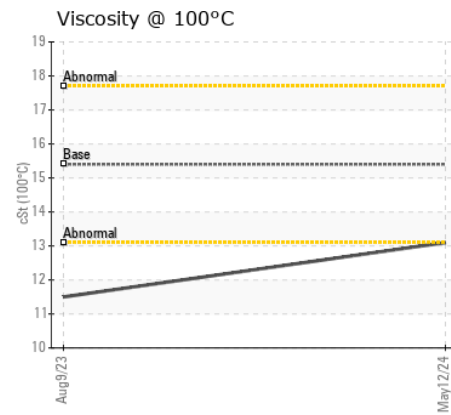
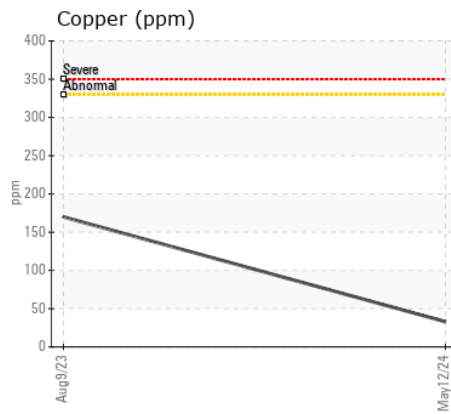
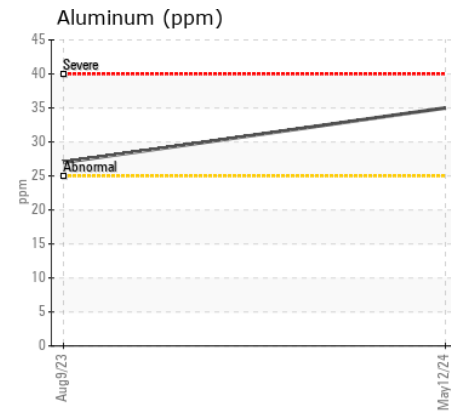
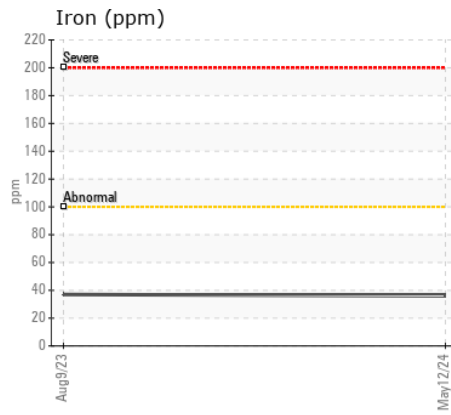
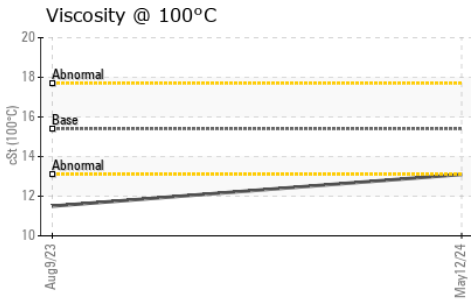
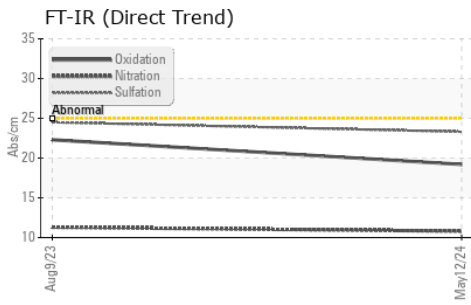
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	7	---
Potassium	ppm	ASTM D5185(m)	>20	4	7	---
Fuel		WC Method	>5	<1.0	1.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	0.6	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	10.8	11.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.3	24.5	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		18	41	---
Boron	ppm	ASTM D5185(m)	0	2	17	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	62	57	---
Manganese	ppm	ASTM D5185(m)	0	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	857	546	---
Calcium	ppm	ASTM D5185(m)	1070	1145	1576	---
Phosphorus	ppm	ASTM D5185(m)	1150	808	854	---
Zinc	ppm	ASTM D5185(m)	1270	1086	1014	---
Sulfur	ppm	ASTM D5185(m)	2060	2408	2304	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	22.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.1	▲ 11.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100613
Lab Number : 02635243
Unique Number : 5776396
Test Package : MOB 1

GFL Environmental - 575 - Squamish Hauling
 38950 Queens Way,
 Squamish, BC
 CA V8B 0K8
 Contact: Jonas Araujo
 jaraujo@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: