



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
215002
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0121938	GFL0011497	---
Sample Date		Client Info		21 Apr 2024	15 Oct 2020	---
Machine Age	kms	Client Info		151950	80079	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	31	37	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	<1	▲ 4	---
Aluminum	ppm	ASTM D5185(m)	>20	9	4	---
Lead	ppm	ASTM D5185(m)	>40	1	8	---
Copper	ppm	ASTM D5185(m)	>330	5	292	---
Tin	ppm	ASTM D5185(m)	>15	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

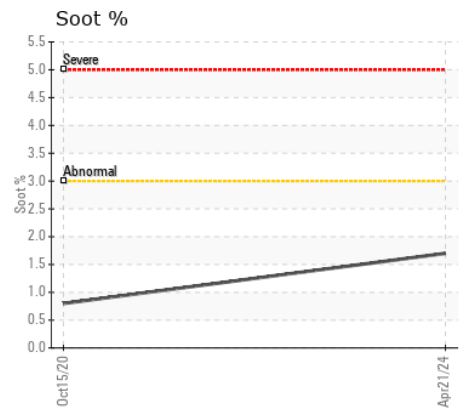
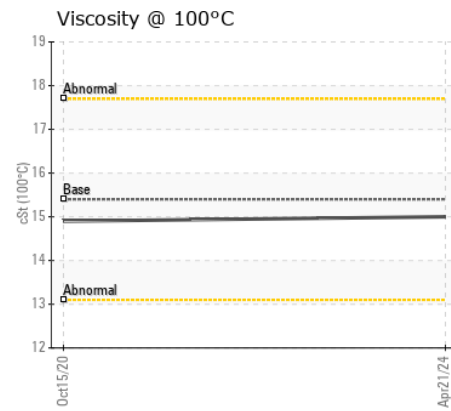
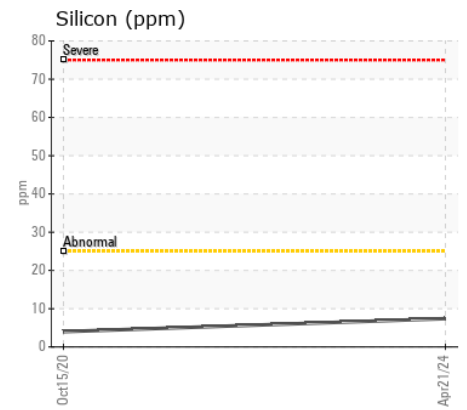
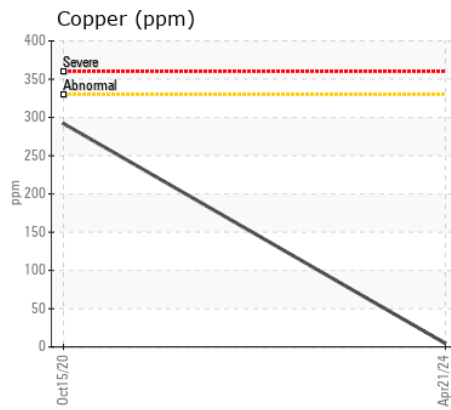
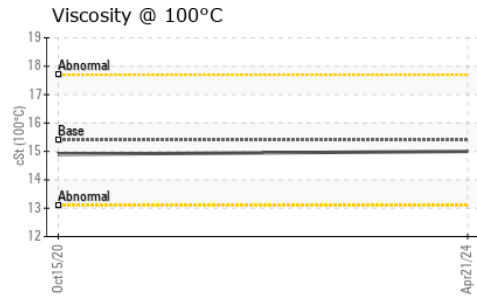
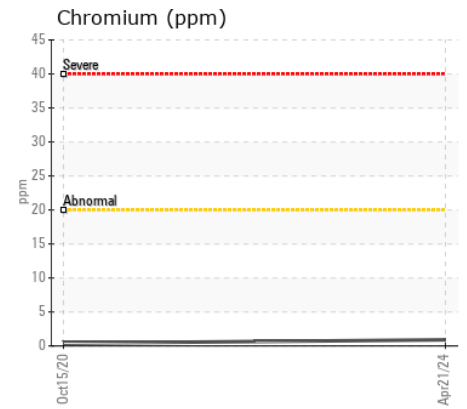
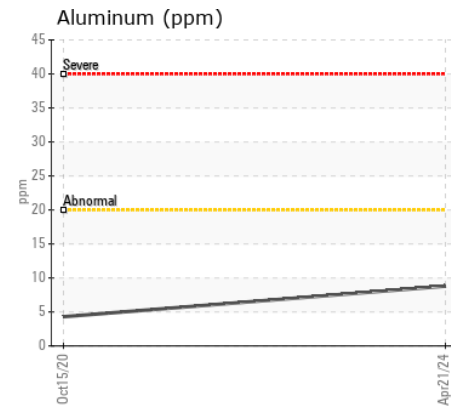
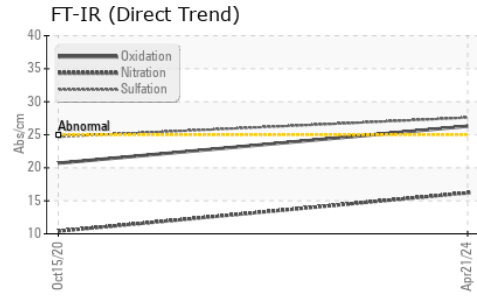
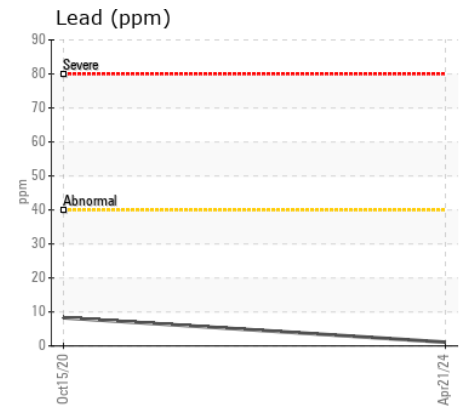
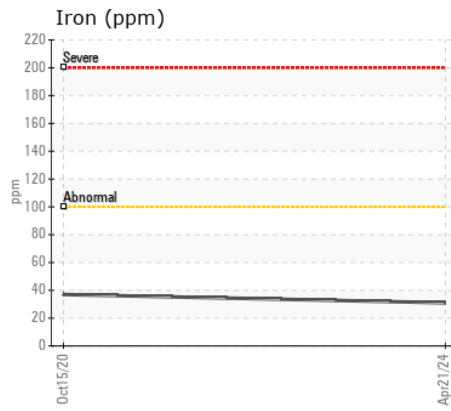
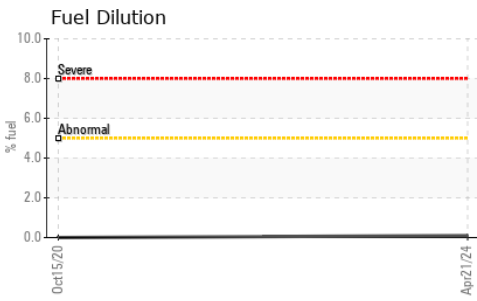
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	8	---
Fuel	%	ASTM D7593*	>5	0.1	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>3	1.7	0.8	---
Nitration	Abs/cm	ASTM D7624*	>20	16.2	10.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.6	24.7	---
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)		3	3	---
Boron	ppm	ASTM D5185(m)	0	3	96	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	64	<1	---
Manganese	ppm	ASTM D5185(m)	0	1	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	1019	14	---
Calcium	ppm	ASTM D5185(m)	1070	1116	2257	---
Phosphorus	ppm	ASTM D5185(m)	1150	1021	946	---
Zinc	ppm	ASTM D5185(m)	1270	1248	1230	---
Sulfur	ppm	ASTM D5185(m)	2060	2307	2985	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.3	20.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.0	14.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 9998 - Moved No Longer Used Units
Sample No. : GFL0121938 **Received** : 15 May 2024 CANADIAN UNITS
Lab Number : 02635535 **Tested** : 16 May 2024
Unique Number : 5776688 **Diagnosed** : 16 May 2024 - Wes Davis CA
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel) Contact: Service Manager

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.