



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
201108
 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. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096778	GFL0039319	---
Sample Date		Client Info		11 Apr 2024	05 Mar 2022	---
Machine Age	hrs	Client Info		23664	18179	---
Oil Age	hrs	Client Info		0	600	---
Filter Age	hrs	Client Info		600	600	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	59	38	---
Chromium	ppm	ASTM D5185(m)	>20	2	3	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		4	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	5	4	---
Lead	ppm	ASTM D5185(m)	>40	3	3	---
Copper	ppm	ASTM D5185(m)	>330	120	37	---
Tin	ppm	ASTM D5185(m)	>15	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

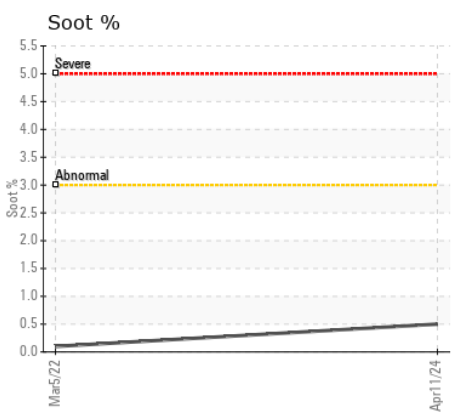
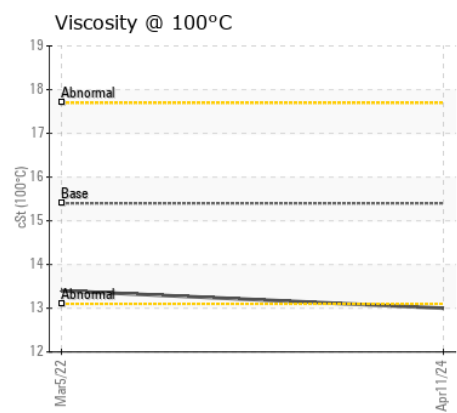
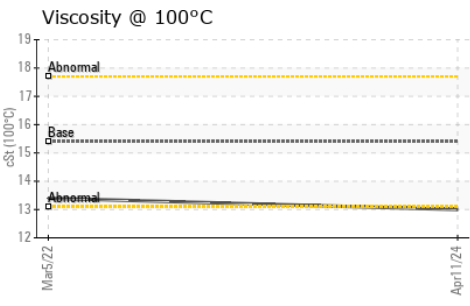
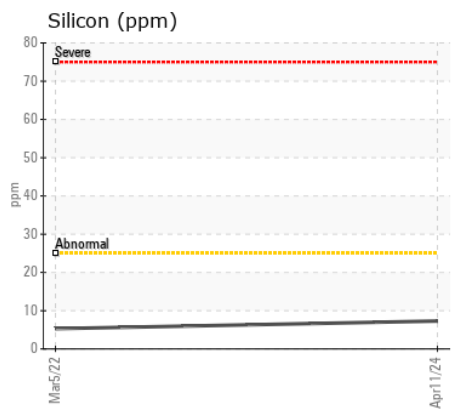
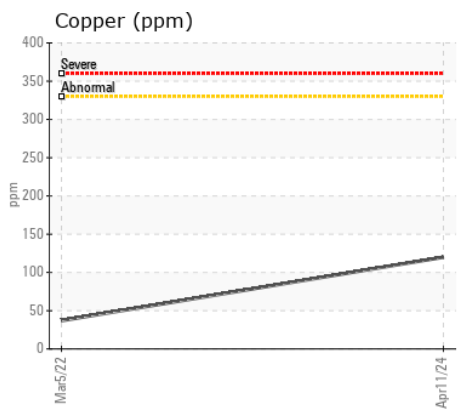
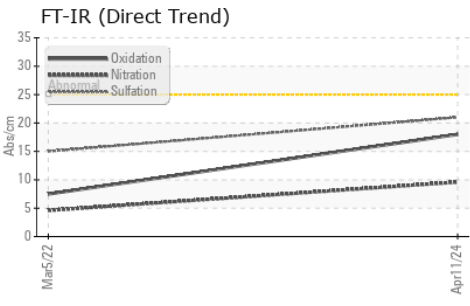
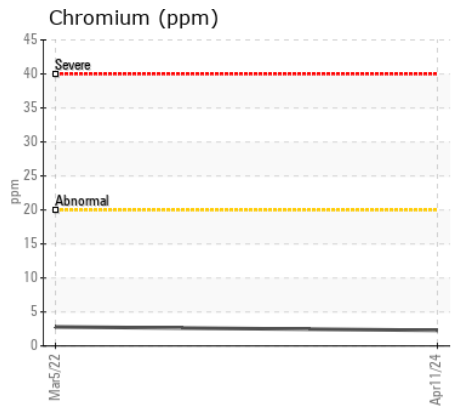
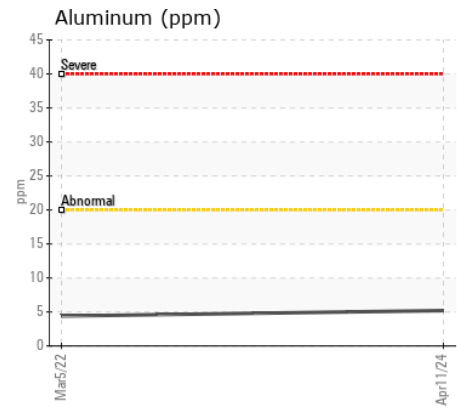
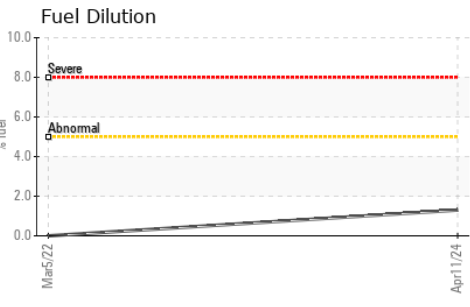
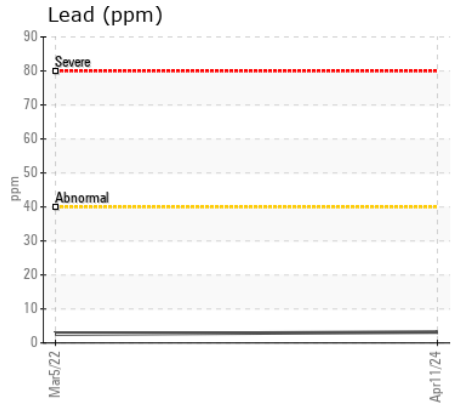
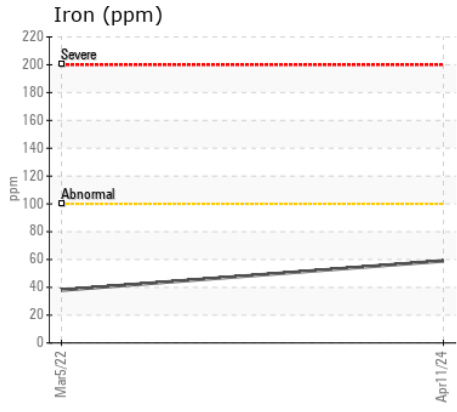
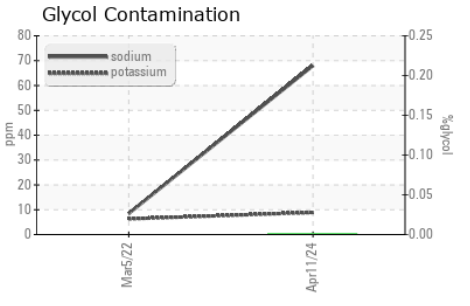
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	5	---
Potassium	ppm	ASTM D5185(m)	>20	9	6	---
Fuel	%	ASTM D7593*	>5	1.3	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	ASTM D7922*		0.0	NEG	---
Soot %	%	ASTM D7844*	>3	0.5	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	9.6	4.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	15.0	---
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)		68	8	---
Boron	ppm	ASTM D5185(m)	0	2	2	---
Barium	ppm	ASTM D5185(m)	0	8	0	---
Molybdenum	ppm	ASTM D5185(m)	60	62	60	---
Manganese	ppm	ASTM D5185(m)	0	1	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	953	947	---
Calcium	ppm	ASTM D5185(m)	1070	1081	1042	---
Phosphorus	ppm	ASTM D5185(m)	1150	896	898	---
Zinc	ppm	ASTM D5185(m)	1270	1142	1181	---
Sulfur	ppm	ASTM D5185(m)	2060	2211	2229	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.0	7.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	13.4	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096778 **Received** : 24 Apr 2024
Lab Number : 02631111 **Tested** : 25 Apr 2024
Unique Number : 5772264 **Diagnosed** : 25 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

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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.