

Area
(MV5926)
Machine Id
426002
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		GFL0029322	GFL0029335	GFL0029343
Sample Date		Client Info		14 May 2024	13 May 2022	12 Nov 2021
Machine Age	hrs	Client Info		26119	23360	12536
Oil Age	hrs	Client Info		700	620	558
Filter Age	hrs	Client Info		700	620	558
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	33	9	8
Chromium	ppm	ASTM D5185(m)	>20	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4	2	2
Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	5	1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

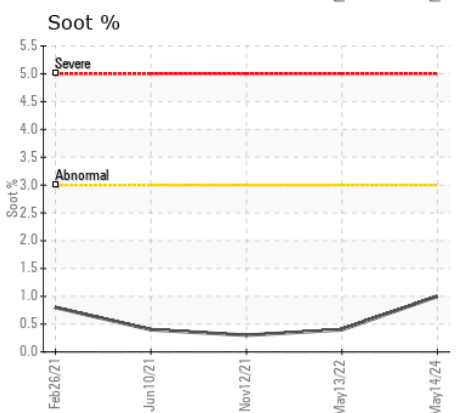
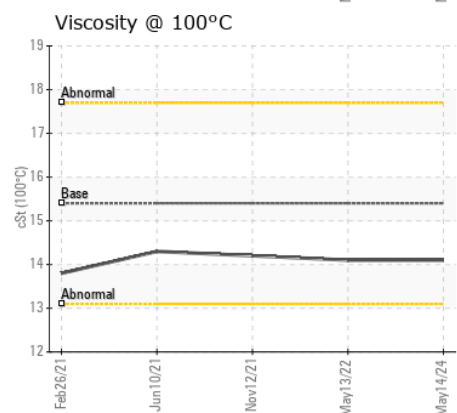
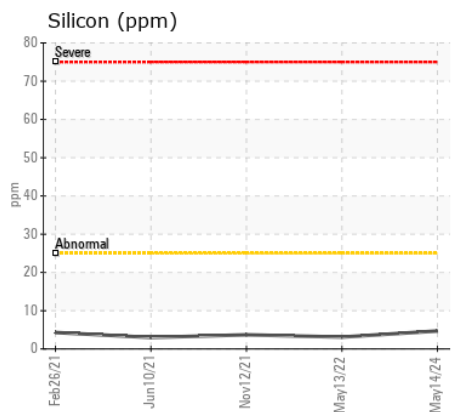
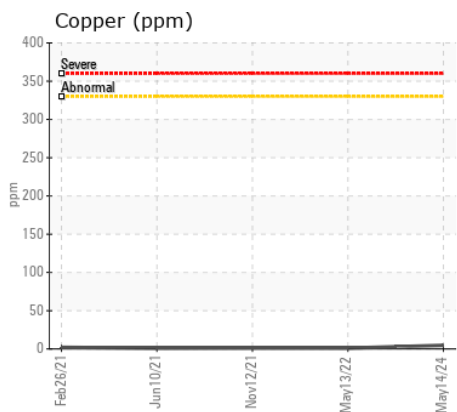
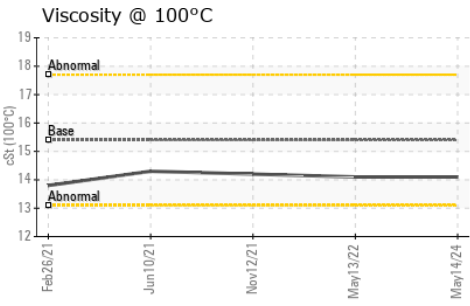
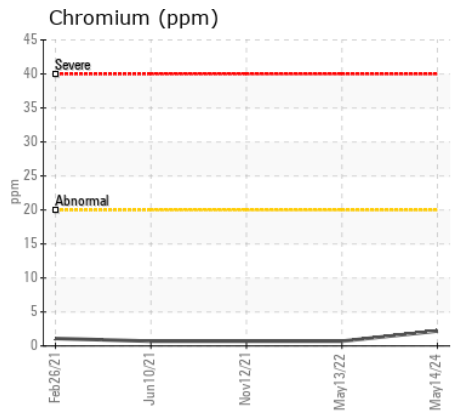
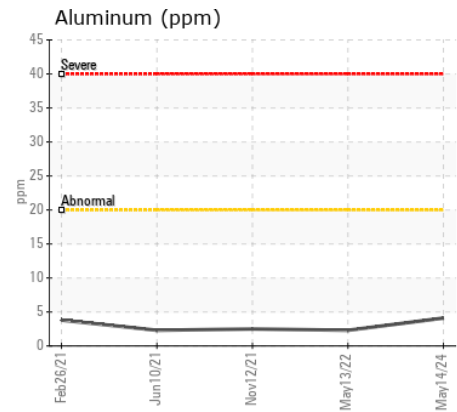
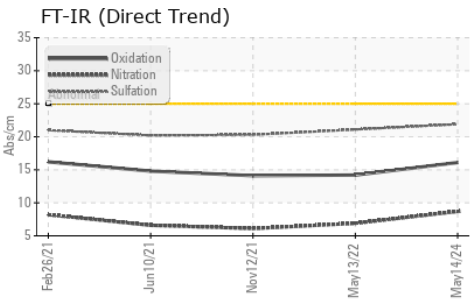
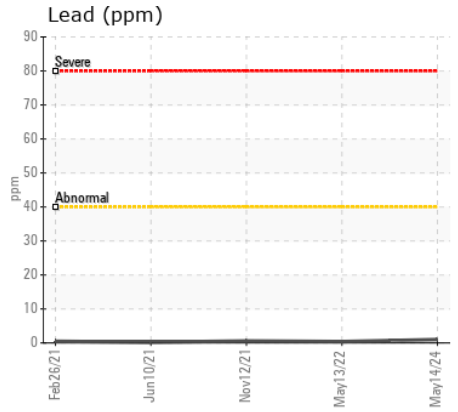
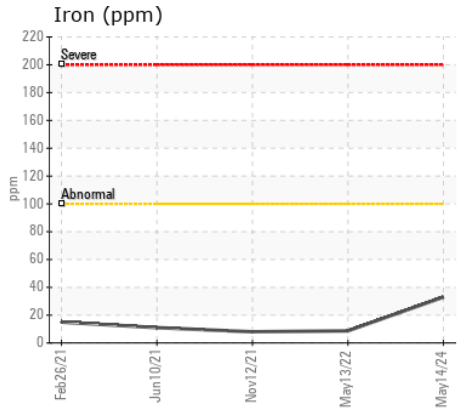
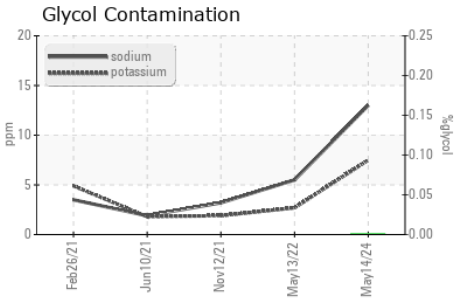
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	3	4
Potassium	ppm	ASTM D5185(m)	>20	8	3	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	1	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	8.7	6.9	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	21.1	20.3
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		13	6	3
Boron	ppm	ASTM D5185(m)	0	4	10	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	64	57	57
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	988	949	982
Calcium	ppm	ASTM D5185(m)	1070	1109	1118	1030
Phosphorus	ppm	ASTM D5185(m)	1150	1030	1101	1039
Zinc	ppm	ASTM D5185(m)	1270	1216	1233	1189
Sulfur	ppm	ASTM D5185(m)	2060	2433	2663	2552
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	14.2	14.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.1	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0029322 **Received** : 30 May 2024
Lab Number : 02638792 **Tested** : 31 May 2024
Unique Number : 5787954 **Diagnosed** : 31 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, Visual)

GFL Environmental - 571 - Cranbrook Hauling TS LF
 1425 Industrial Road 2
 Cranbrook, BC
 CA V1C 5X5
 Contact: Michael Miles
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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.