

Machine Id
501092
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0108210	GFL0108241	GFL0047673
Sample Date		Client Info		03 May 2024	13 Feb 2024	25 Nov 2022
Machine Age	hrs	Client Info		12902	12339	9334
Oil Age	hrs	Client Info		500	676	732
Filter Age	hrs	Client Info		500	676	732
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	43	62	30
Chromium	ppm	ASTM D5185(m)	>20	1	2	2
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	5	8	5
Lead	ppm	ASTM D5185(m)	>40	7	2	9
Copper	ppm	ASTM D5185(m)	>330	<1	<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

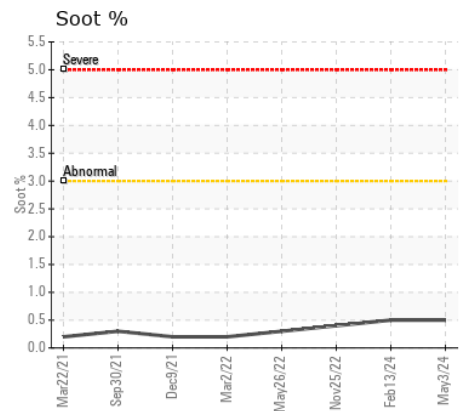
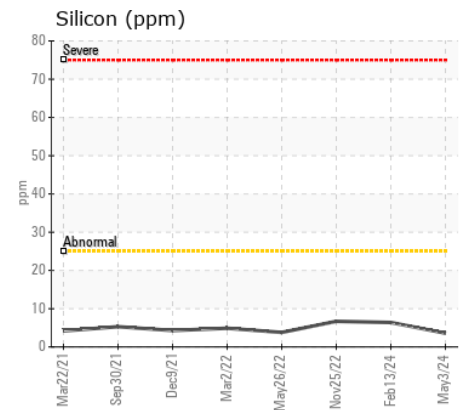
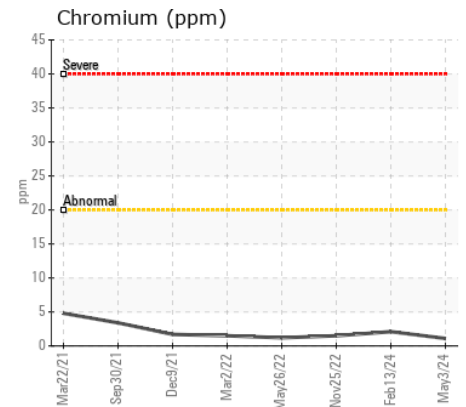
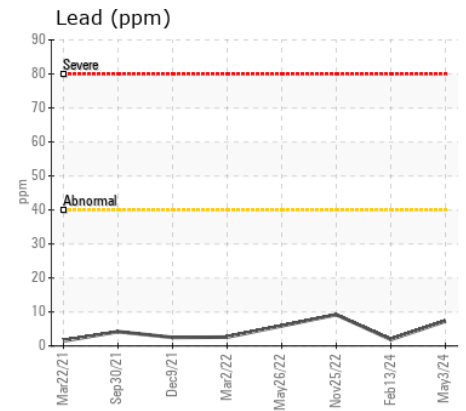
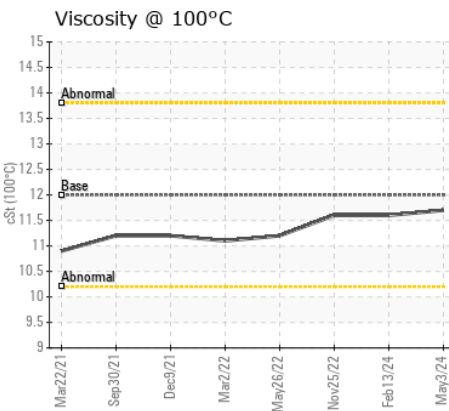
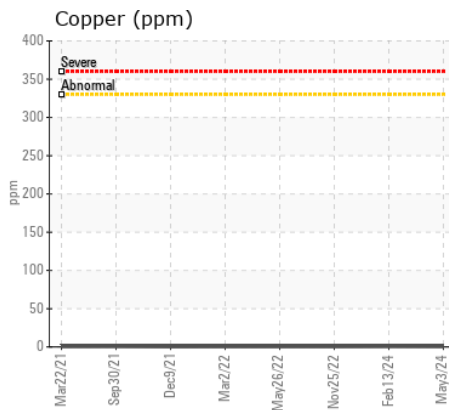
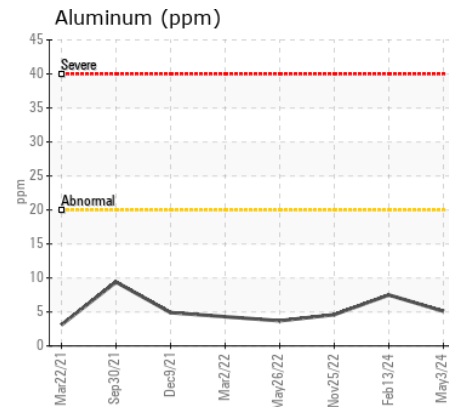
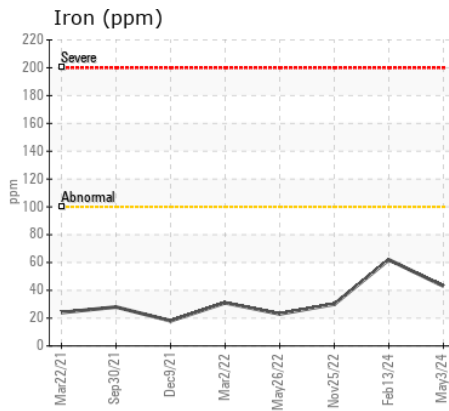
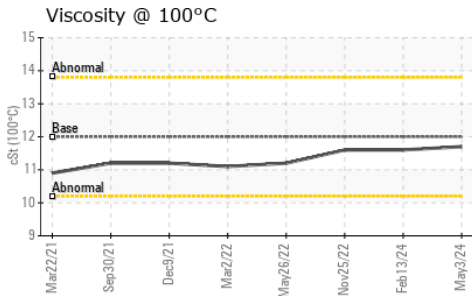
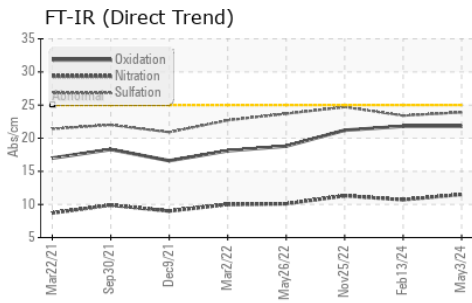
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	6	7
Potassium	ppm	ASTM D5185(m)	>20	4	4	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	11.5	10.7	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.9	23.4	24.7
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
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)		2	3	2
Boron	ppm	ASTM D5185(m)	2	1	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	64	61	62
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	1060	1008	1017
Calcium	ppm	ASTM D5185(m)	1050	1155	1146	1139
Phosphorus	ppm	ASTM D5185(m)	995	1058	1036	1111
Zinc	ppm	ASTM D5185(m)	1180	1248	1209	1268
Sulfur	ppm	ASTM D5185(m)	2600	2351	2480	2478
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.8	21.8	21.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.7	11.6	11.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0108210
Lab Number : 02638799
Unique Number : 5787961
Test Package : MOB 1 (Additional Tests: Visual)

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 Saskatoon, SK
 CA S7K 3J7
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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.