

Machine Id
800011
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		GFL0102710	GFL0094510	---
Sample Date		Client Info		08 Jan 2024	27 Oct 2023	---
Machine Age	hrs	Client Info		17881	17281	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
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	24	32	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	2	1	---
Lead	ppm	ASTM D5185(m)	>40	<1	<1	---
Copper	ppm	ASTM D5185(m)	>330	<1	<1	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---	---

CONTAMINATION

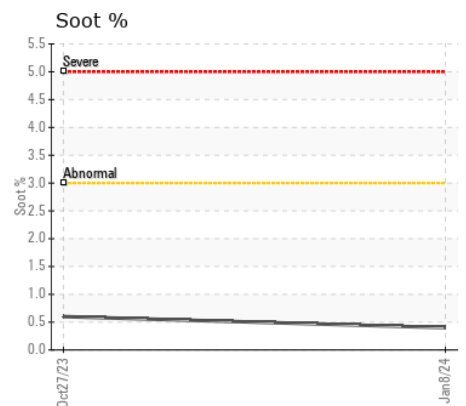
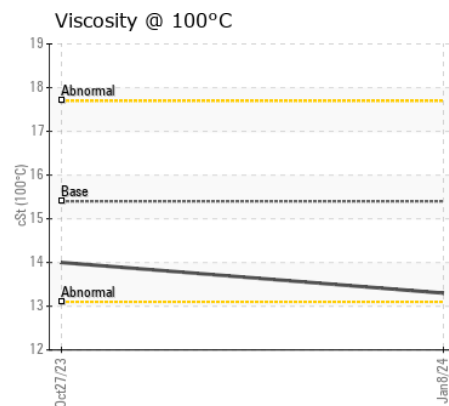
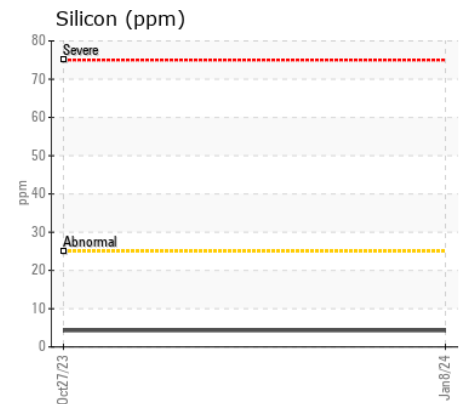
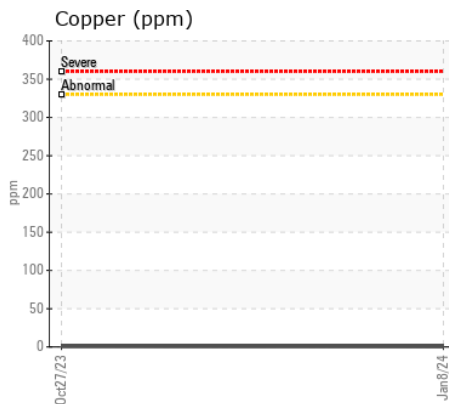
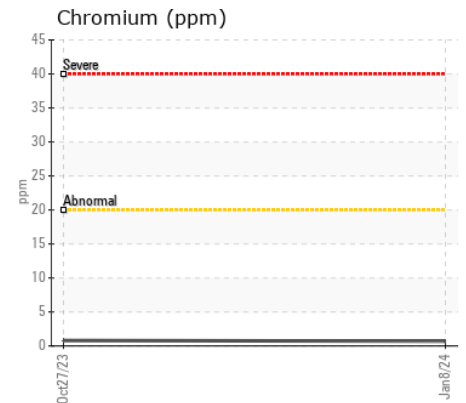
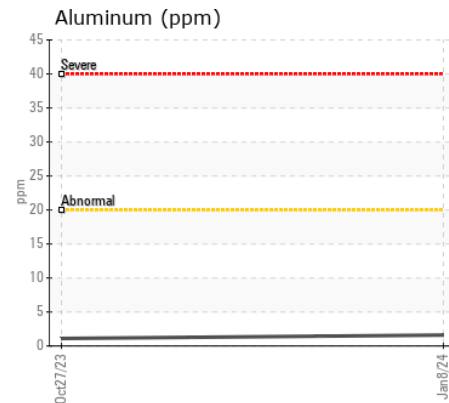
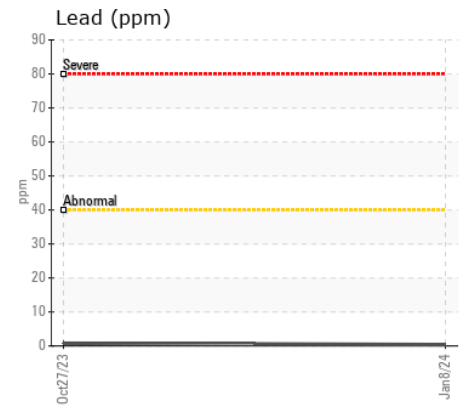
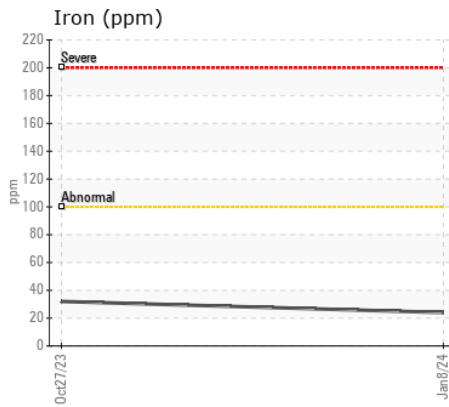
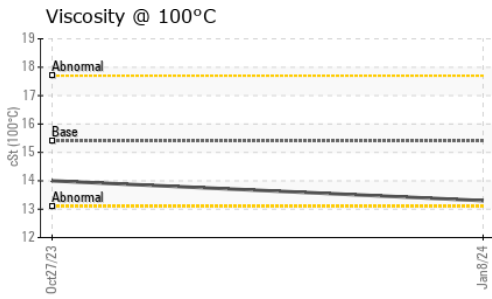
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	4	---
Potassium	ppm	ASTM D5185(m)	>20	1	<1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.4	0.6	---
Nitration	Abs/cm	ASTM D7624*	>20	11.2	12.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	27.7	---
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	---
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)		8	11	---
Boron	ppm	ASTM D5185(m)	0	2	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	56	59	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	1010	900	924	---
Calcium	ppm	ASTM D5185(m)	1070	998	1022	---
Phosphorus	ppm	ASTM D5185(m)	1150	947	926	---
Zinc	ppm	ASTM D5185(m)	1270	1123	1138	---
Sulfur	ppm	ASTM D5185(m)	2060	2380	2210	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.6	31.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	14.0	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 207 - Pickering SW**
Sample No. : GFL0102710 **Received** : 10 Jan 2024 **1034 TOY AVENUE, PICKERING YARD**
Lab Number : 02607672 **Diagnosed** : 10 Jan 2024 **PICKERING, ON**
Unique Number : 5708758 **Diagnostician** : Wes Davis **CA L1W 3P1**
Test Package : MOB 1 (Additional Tests: Visual) **Contact: Ian Patton**
ipatton@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.

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