



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
126012
 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		GFL0113163	GFL0044449	---
Sample Date		Client Info		22 Feb 2024	18 Oct 2022	---
Machine Age	kms	Client Info		304213	306129	---
Oil Age	kms	Client Info		0	19506	---
Filter Age	kms	Client Info		0	19506	---
Oil Changed		Client Info		Changed	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	20	43	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	9	13	---
Lead	ppm	ASTM D5185(m)	>40	<1	2	---
Copper	ppm	ASTM D5185(m)	>330	2	6	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

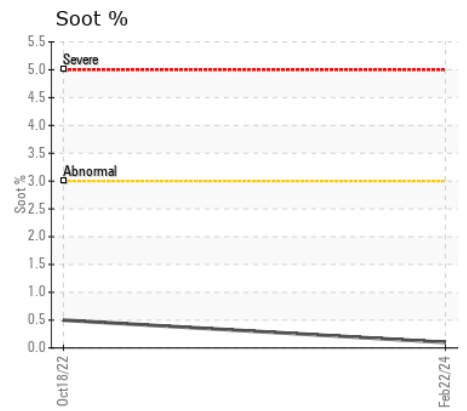
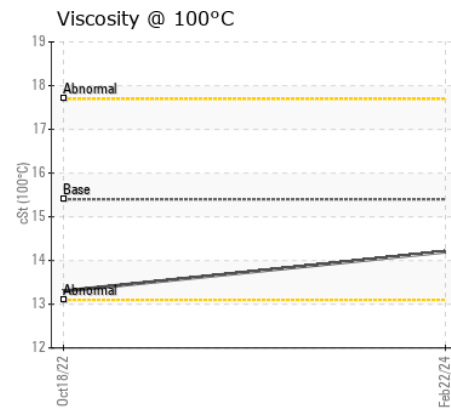
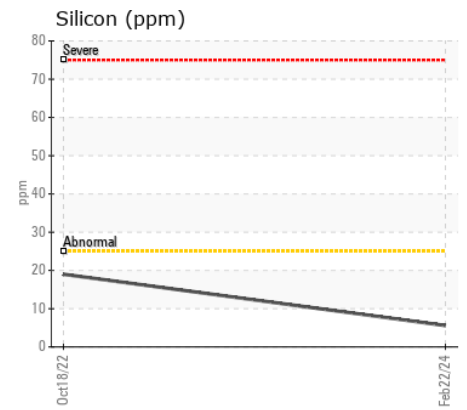
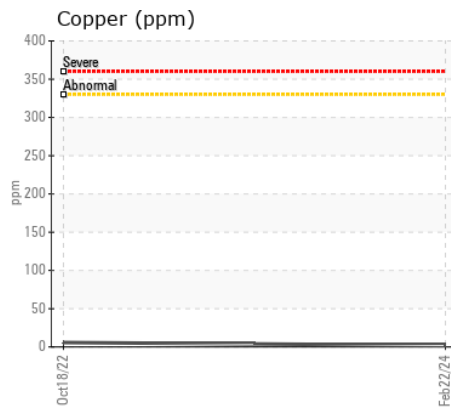
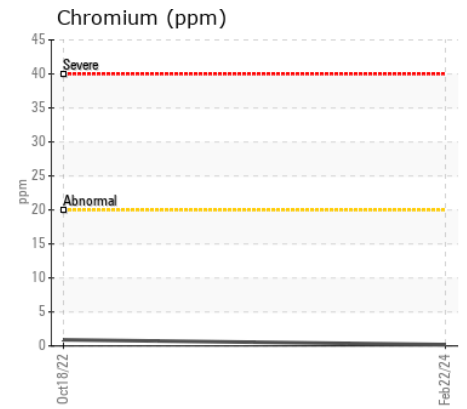
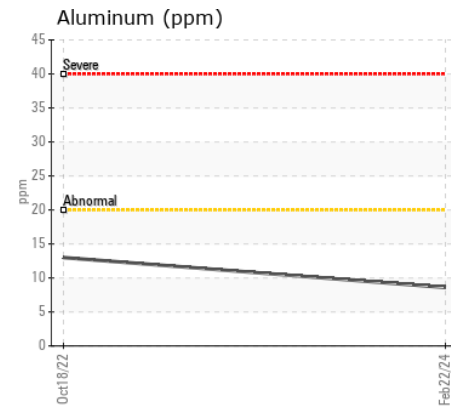
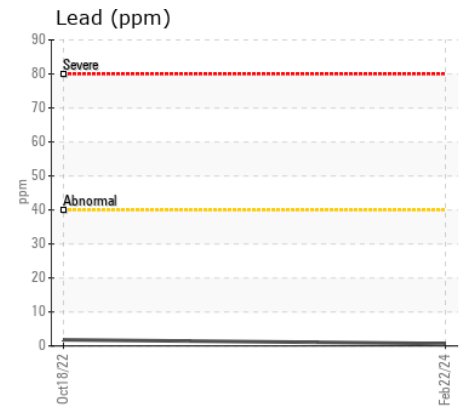
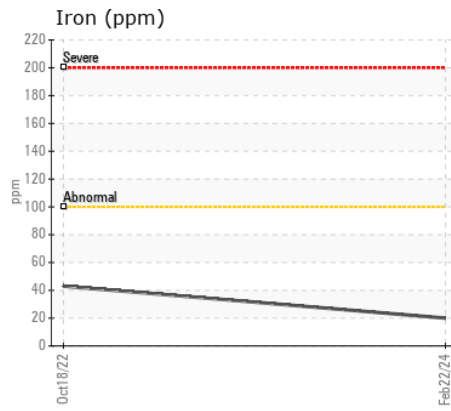
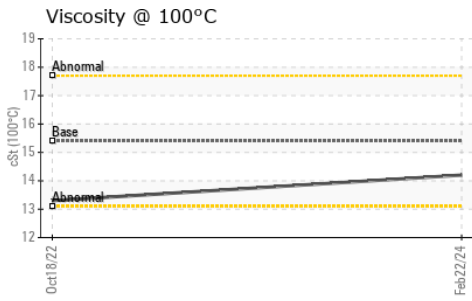
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	19	---
Potassium	ppm	ASTM D5185(m)	>20	2	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	0.1	0.5	---
Nitration	Abs/cm	ASTM D7624*	>20	5.2	10.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	22.6	---
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	19	---
Boron	ppm	ASTM D5185(m)	0	6	48	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	56	25	---
Manganese	ppm	ASTM D5185(m)	0	0	1	---
Magnesium	ppm	ASTM D5185(m)	1010	903	592	---
Calcium	ppm	ASTM D5185(m)	1070	1087	1573	---
Phosphorus	ppm	ASTM D5185(m)	1150	995	762	---
Zinc	ppm	ASTM D5185(m)	1270	1125	842	---
Sulfur	ppm	ASTM D5185(m)	2060	2759	2267	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	19.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	13.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113163
Lab Number : 02618247
Unique Number : 5735357
Test Package : MOB 1
Received : 27 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 2024 - Wes Davis

GFL Environmental - 582 - Nanaimo
 3469 Aqua Terra Rd.,
 Cassidy, BC
 CA V0R 1H0
 Contact: GFL Tech
 wcgfldemo@gmail.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.

T:
F: