



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
801096
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		GFL0097982	GFL0082137	---
Sample Date		Client Info		13 Feb 2024	16 Aug 2023	---
Machine Age	hrs	Client Info		8863	8530	---
Oil Age	hrs	Client Info		333	0	---
Filter Age	hrs	Client Info		333	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	13	9	---
Chromium	ppm	ASTM D5185(m)	>20	0	0	---
Nickel	ppm	ASTM D5185(m)	>4	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
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	---

CONTAMINATION

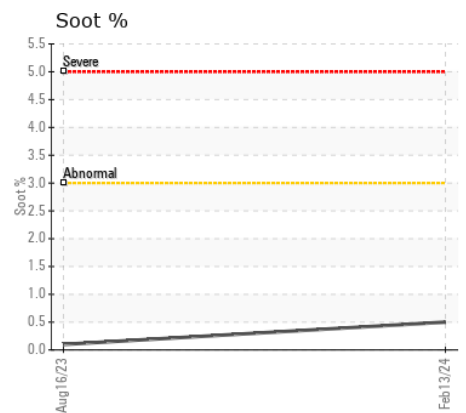
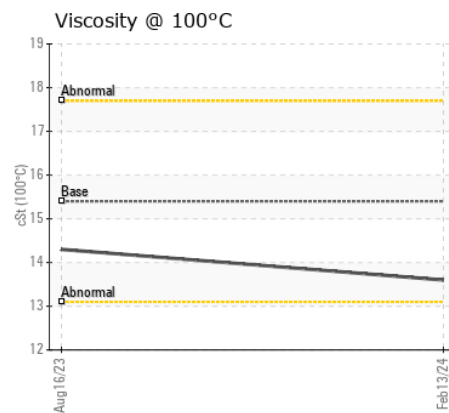
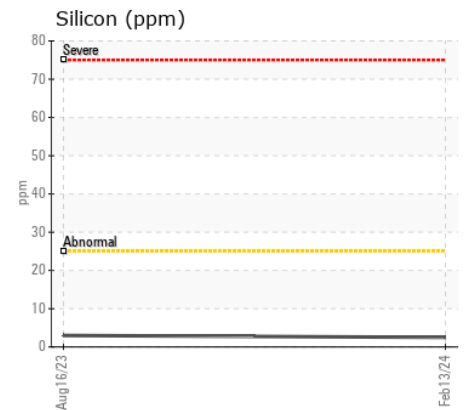
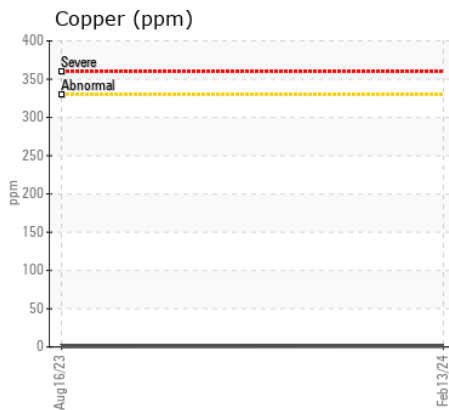
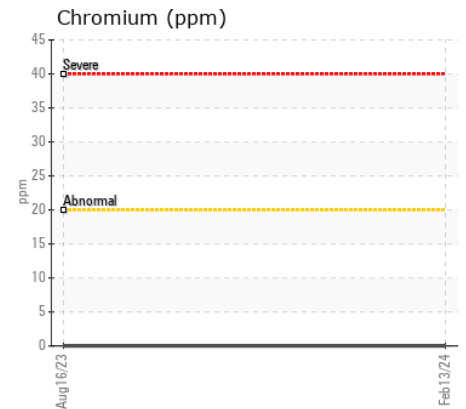
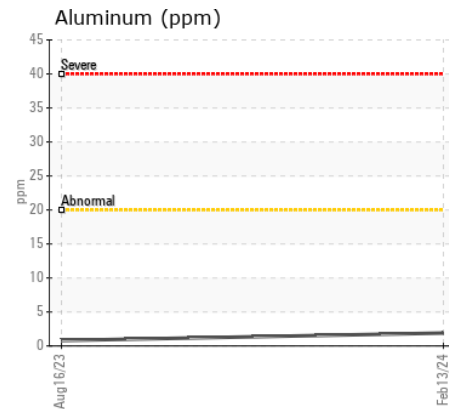
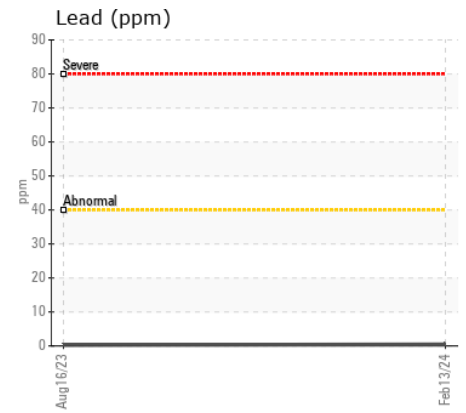
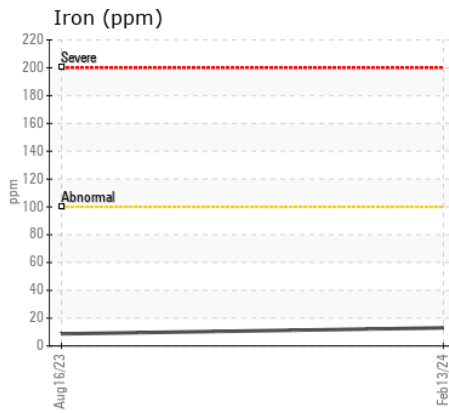
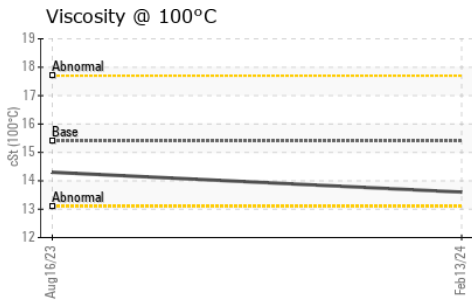
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	---
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	0.5	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	7.8	5.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	19.2	---
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)		1	2	---
Boron	ppm	ASTM D5185(m)	0	1	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	58	58	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	952	977	---
Calcium	ppm	ASTM D5185(m)	1070	1021	1023	---
Phosphorus	ppm	ASTM D5185(m)	1150	1015	1086	---
Zinc	ppm	ASTM D5185(m)	1270	1161	1168	---
Sulfur	ppm	ASTM D5185(m)	2060	2749	2633	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.5	13.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	14.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097982
Lab Number : 02617941
Unique Number : 5735051
Test Package : MOB 1
Received : 26 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Wes Davis

GFL Environmental - 593
 4421 Boban Drive
 Nanaimo, BC
 CA V9T 6A6
 Contact: Patrick Rutti
 prutti@gflenv.com
 T: (250) 739-3345
 F:

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.