



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
810000
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		GFL0107282	GFL0079256	GFL0079212
Sample Date		Client Info		28 Feb 2024	07 Nov 2023	04 Oct 2023
Machine Age	hrs	Client Info		9178	600	8463
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	32	26	▲ 97
Chromium	ppm	ASTM D5185(m)	>5	2	2	▲ 6
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>30	4	4	● 12
Lead	ppm	ASTM D5185(m)	>30	<1	0	<1
Copper	ppm	ASTM D5185(m)	>150	3	2	4
Tin	ppm	ASTM D5185(m)	>5	<1	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

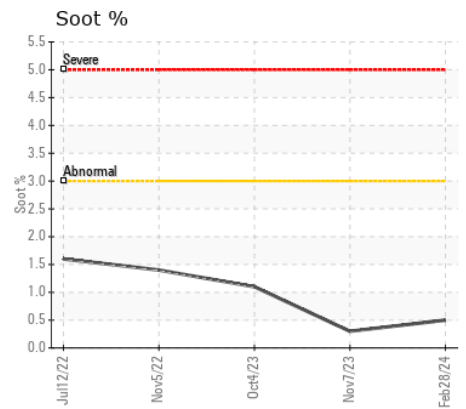
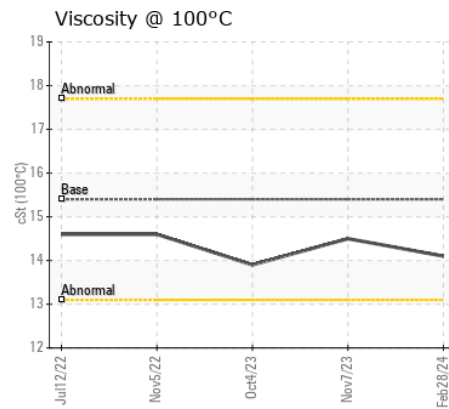
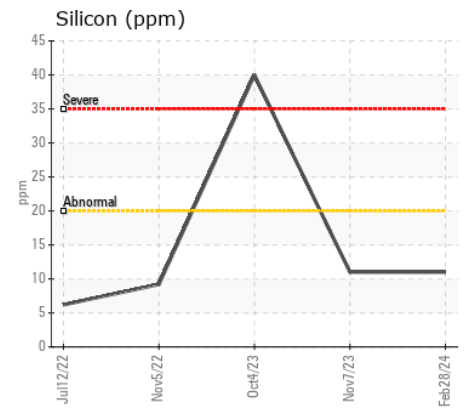
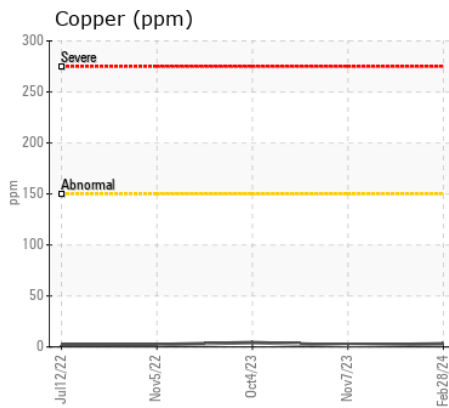
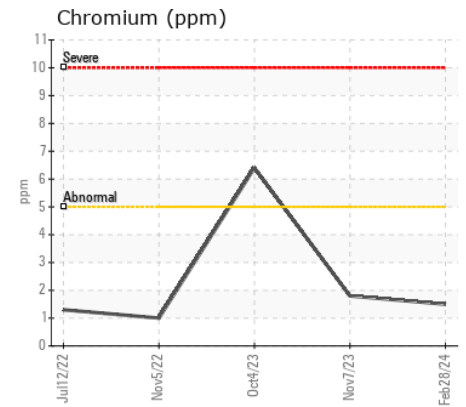
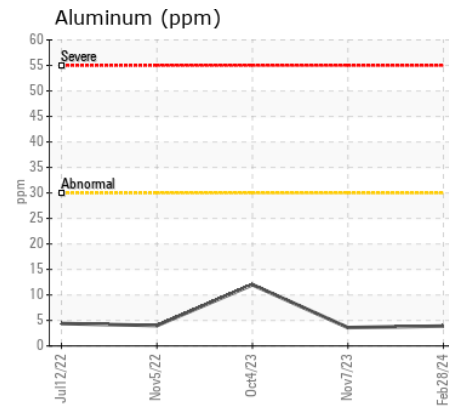
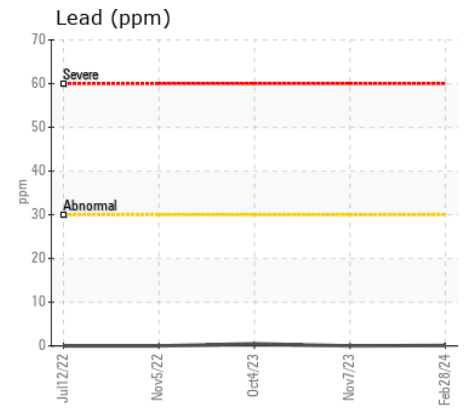
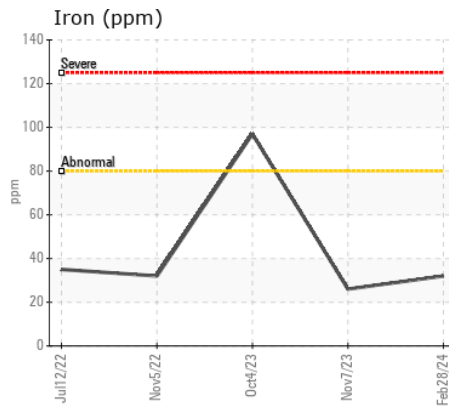
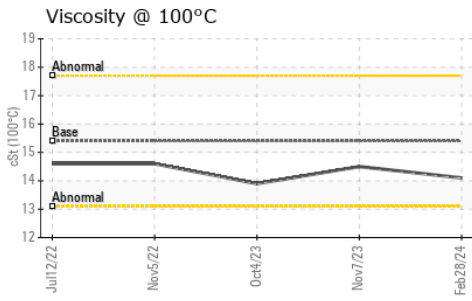
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	11	11	▲ 40
Potassium	ppm	ASTM D5185(m)	>20	2	<1	3
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	0.3	1.1
Nitration	Abs/cm	ASTM D7624*	>20	9.5	6.6	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	19.3	22.7
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)		8	6	11
Boron	ppm	ASTM D5185(m)	0	1	2	5
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	62	60	66
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	1013	969	1017
Calcium	ppm	ASTM D5185(m)	1070	1124	1061	1134
Phosphorus	ppm	ASTM D5185(m)	1150	1021	973	1034
Zinc	ppm	ASTM D5185(m)	1270	1240	1190	1256
Sulfur	ppm	ASTM D5185(m)	2060	2496	2457	2320
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.2	14.7	18.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.5	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107282
Lab Number : 02619459
Unique Number : 5736569
Test Package : MOB 1
Received : 04 Mar 2024
Tested : 04 Mar 2024
Diagnosed : 04 Mar 2024 - Wes Davis

GFL Environmental - 250 - Sault Ste Marie Hauling + MRF
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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.