



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
801114
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		GFL0107298	GFL0107332	GFL0107320
Sample Date		Client Info		10 Jun 2024	01 Apr 2024	03 Jan 2024
Machine Age	kms	Client Info		12930	89100	600
Oil Age	kms	Client Info		600	600	600
Filter Age	kms	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>165	5	9	11
Chromium	ppm	ASTM D5185(m)	>5	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	3
Lead	ppm	ASTM D5185(m)	>150	0	0	0
Copper	ppm	ASTM D5185(m)	>90	<1	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

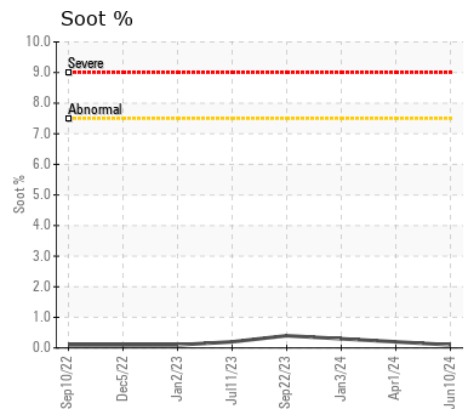
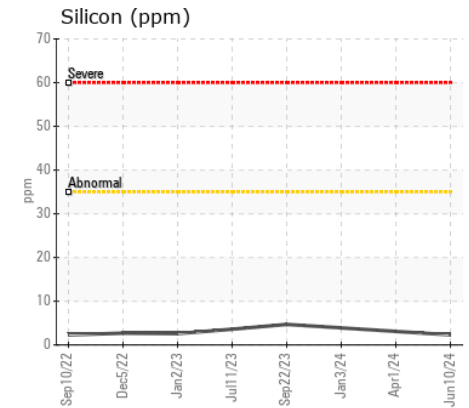
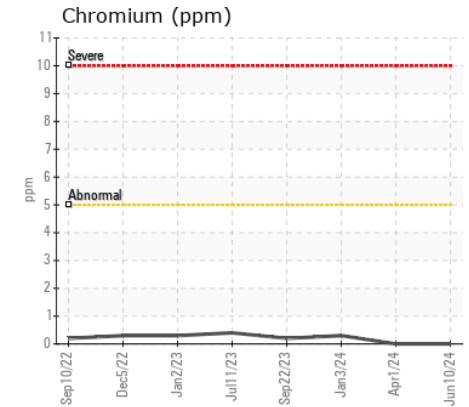
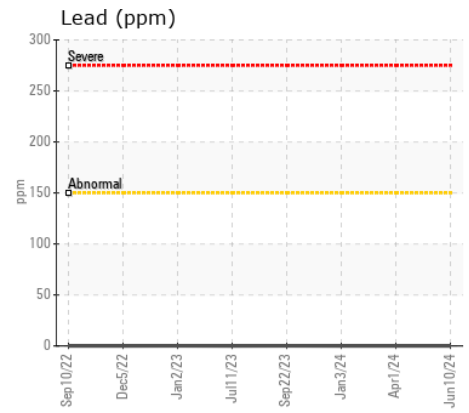
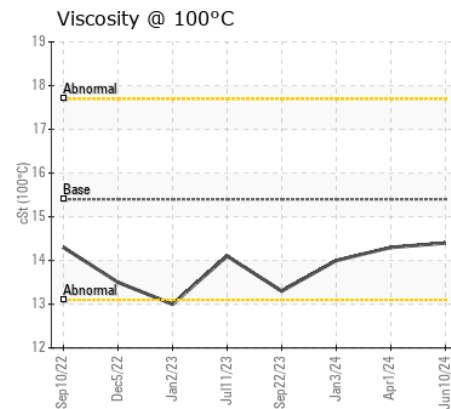
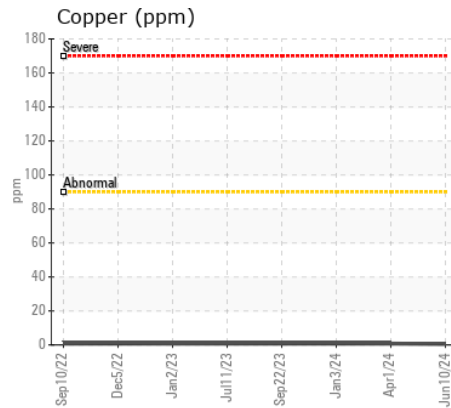
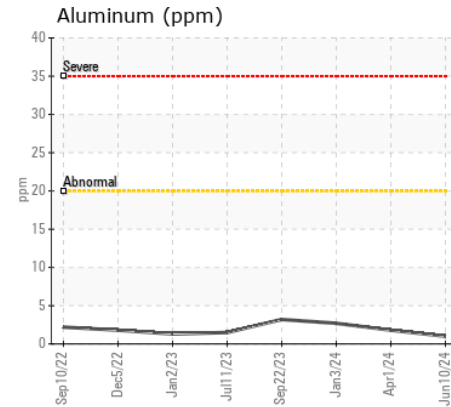
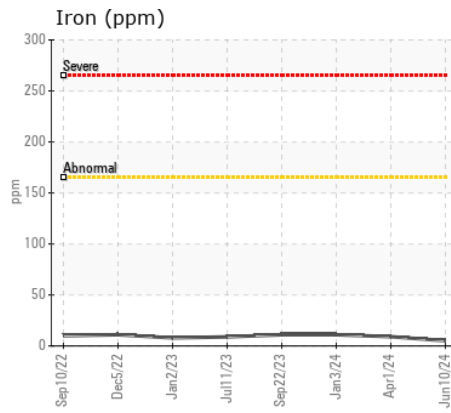
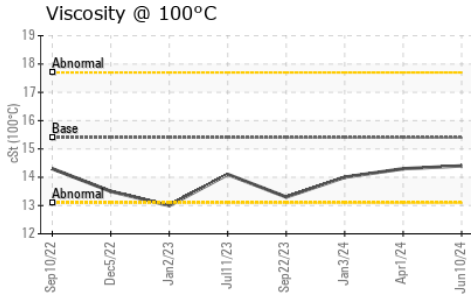
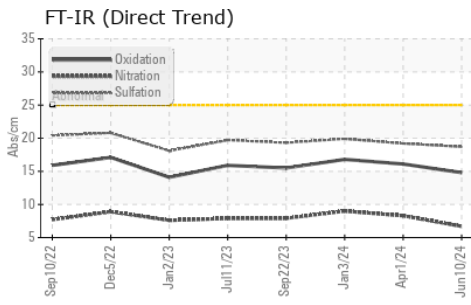
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	2	3
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	0.1	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	6.7	8.3	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	19.2	19.9
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)		4	6	7
Boron	ppm	ASTM D5185(m)	0	4	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	59	60
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	956	965	956
Calcium	ppm	ASTM D5185(m)	1070	1023	1049	1059
Phosphorus	ppm	ASTM D5185(m)	1150	956	954	973
Zinc	ppm	ASTM D5185(m)	1270	1156	1181	1180
Sulfur	ppm	ASTM D5185(m)	2060	2454	2329	2555
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	16.1	16.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.4	14.3	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107298
Lab Number : 02641321
Unique Number : 5798860
Test Package : MOB 1
Received : 12 Jun 2024
Tested : 12 Jun 2024
Diagnosed : 12 Jun 2024 - Wes Davis

GFL Environmental - 250 - Sault Ste Marie Hauling + MRF
 86 Sackville Rd,
 Sault Ste. Marie, ON
 CA P6B 4T6
 Contact: Mike Pelletier
 mpelletier@gflenv.com
 T: (705)945-7554
 F: (705)945-7857

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.