



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
8110
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		GFL0107325	GFL0079258	GFL0079211
Sample Date		Client Info		23 May 2024	18 Oct 2023	30 Sep 2023
Machine Age	hrs	Client Info		14716	0	14301
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>130	14	12	34
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>20	0	0	2
Copper	ppm	ASTM D5185(m)	>125	<1	<1	2
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

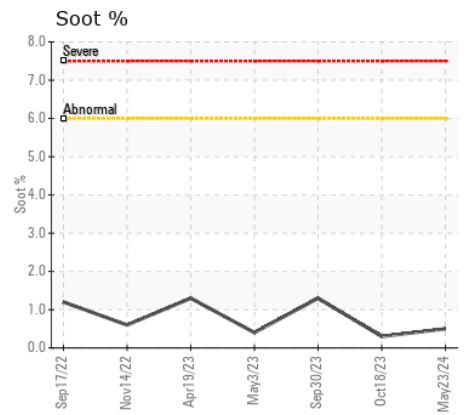
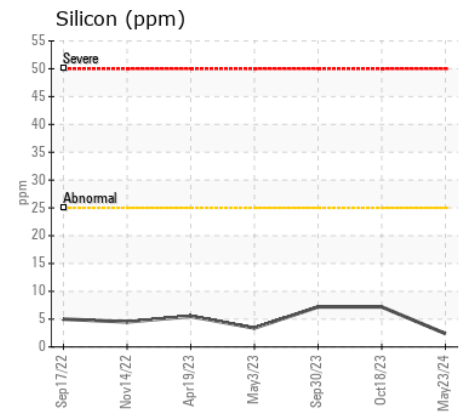
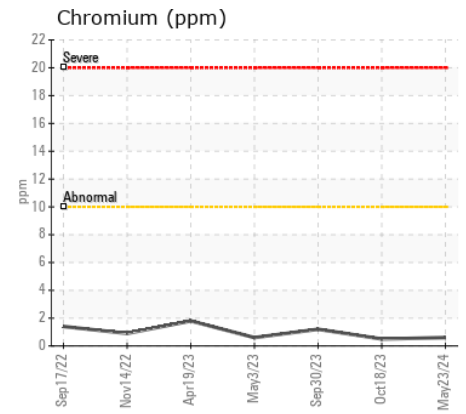
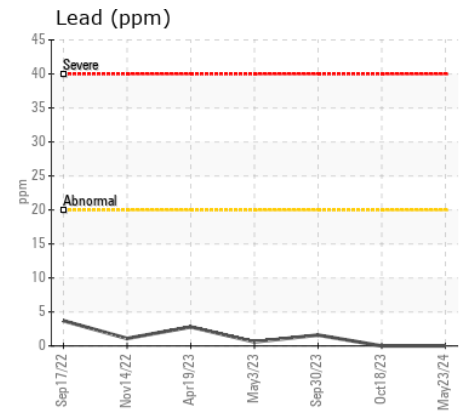
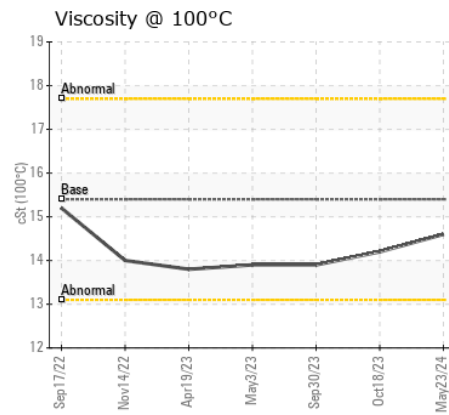
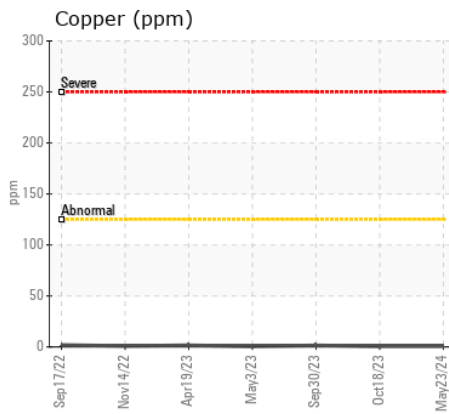
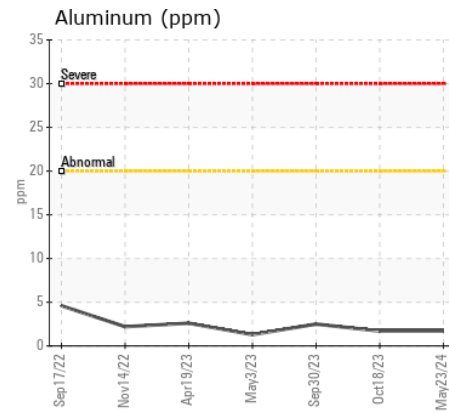
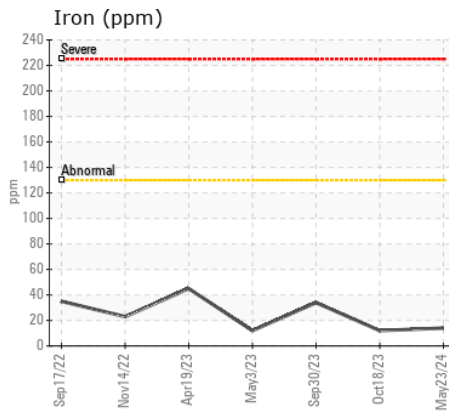
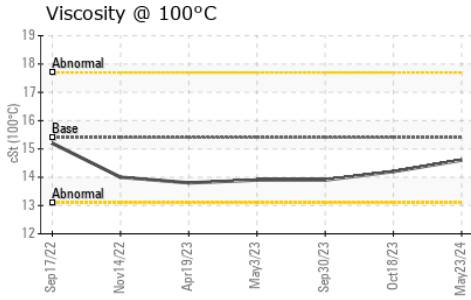
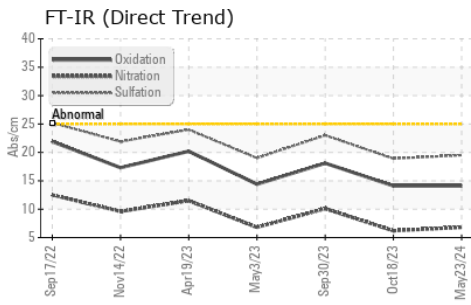
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	7	7
Potassium	ppm	ASTM D5185(m)	>20	1	1	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*	>6	0.5	0.3	1.3
Nitration	Abs/cm	ASTM D7624*	>20	6.8	6.2	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	18.9	23.0
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)		9	4	9
Boron	ppm	ASTM D5185(m)	0	6	12	21
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	61	63	67
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	970	935	990
Calcium	ppm	ASTM D5185(m)	1070	1048	1066	1187
Phosphorus	ppm	ASTM D5185(m)	1150	983	998	1011
Zinc	ppm	ASTM D5185(m)	1270	1176	1148	1244
Sulfur	ppm	ASTM D5185(m)	2060	2478	2567	2436
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.1	14.1	18.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.6	14.2	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107325
Lab Number : 02637588
Unique Number : 5786750
Test Package : MOB 1

Received : 27 May 2024
Tested : 27 May 2024
Diagnosed : 27 May 2024 - Kevin Marson

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.