



Machine Id
426012
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		GFL0113215	GFL0102905	GFL0102881
Sample Date		Client Info		30 Apr 2024	12 Mar 2024	21 Nov 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		20870	20600	19984
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	4	11	7
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

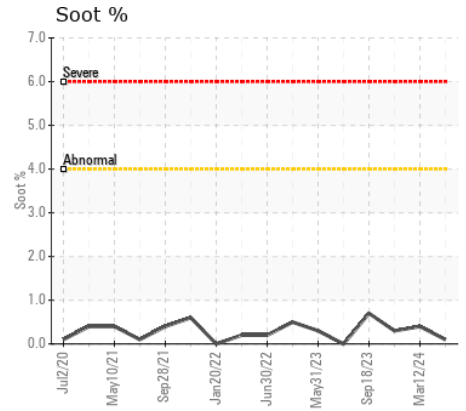
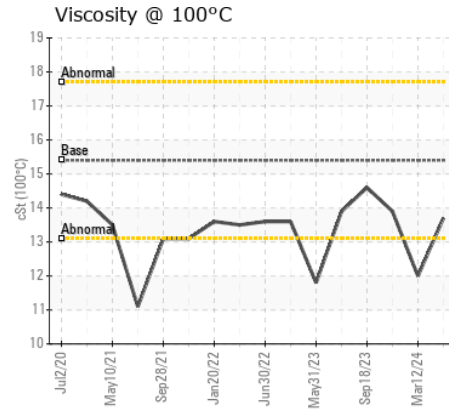
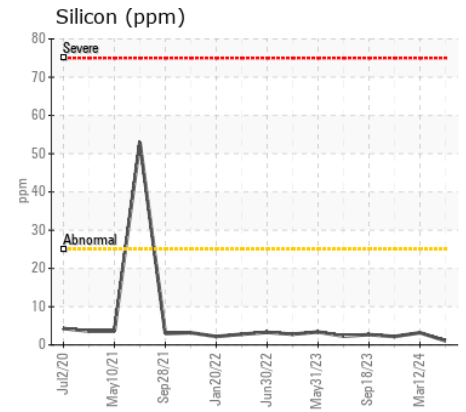
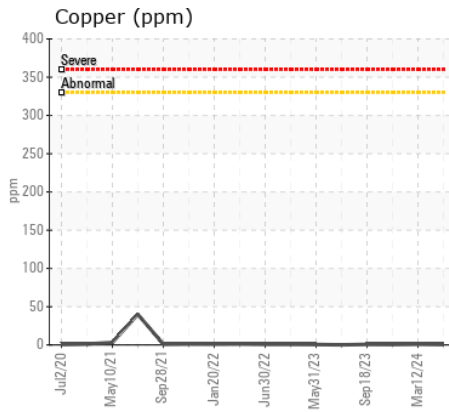
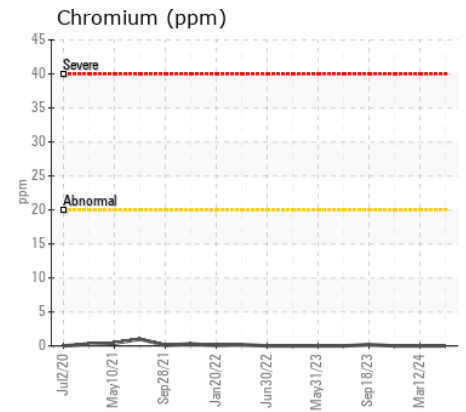
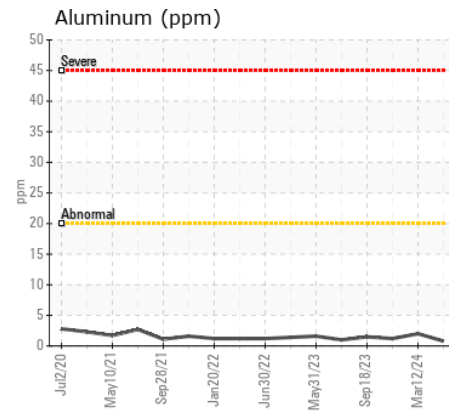
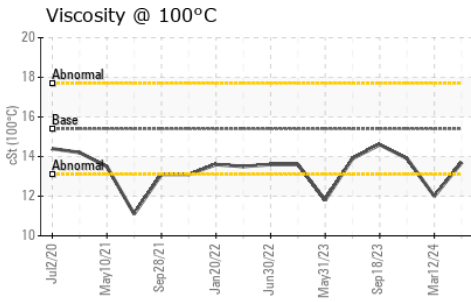
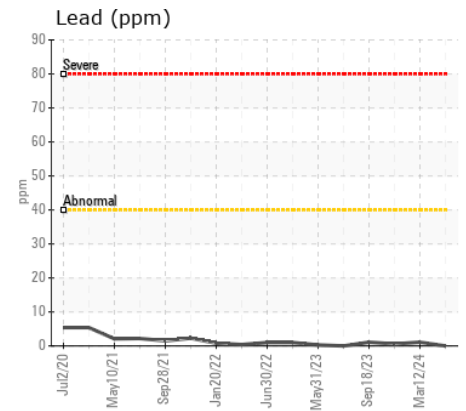
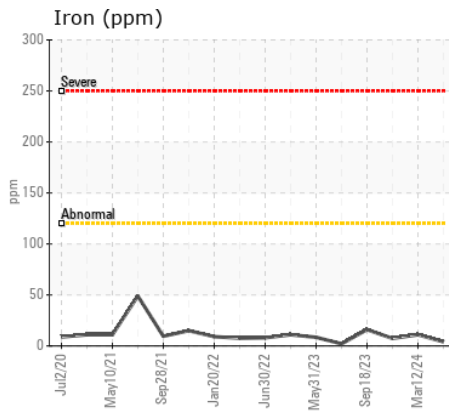
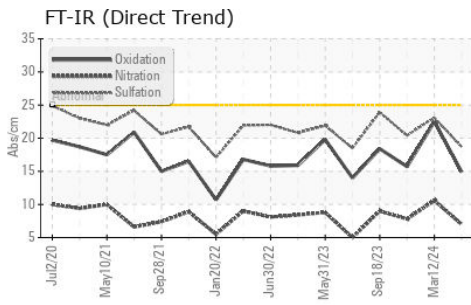
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	3	2
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
Fuel		WC Method	>3.0	<1.0	1.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.1	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.0	10.6	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	23.1	20.4
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)		2	2	4
Boron	ppm	ASTM D5185(m)	0	7	26	10
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	56	48	52
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	888	557	814
Calcium	ppm	ASTM D5185(m)	1070	1073	1671	1171
Phosphorus	ppm	ASTM D5185(m)	1150	947	811	966
Zinc	ppm	ASTM D5185(m)	1270	1115	921	1156
Sulfur	ppm	ASTM D5185(m)	2060	2422	2331	2493
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9	22.5	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.7	12.0	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113215
Lab Number : 02632510
Unique Number : 5773663
Test Package : MOB 1
Received : 01 May 2024
Tested : 01 May 2024
Diagnosed : 01 May 2024 - Wes Davis

GFL Environmental - 246 - Windsor
 2700 Deziel Dr
 Windsor, ON
 CA N8W 5H8
 Contact: Dave Varga
 dvarga@gflenv.com
 T: (519)944-8009
 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.