

Area
[1265921]
 Machine Id
210020
 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		GFL0118496	GFL0102719	GFL0102694
Sample Date		Client Info		25 Apr 2024	25 Jan 2024	22 Nov 2023
Machine Age	hrs	Client Info		7424	6988	6673
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	14	10	16
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	5	6	9
Lead	ppm	ASTM D5185(m)	>40	1	2	4
Copper	ppm	ASTM D5185(m)	>330	<1	<1	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

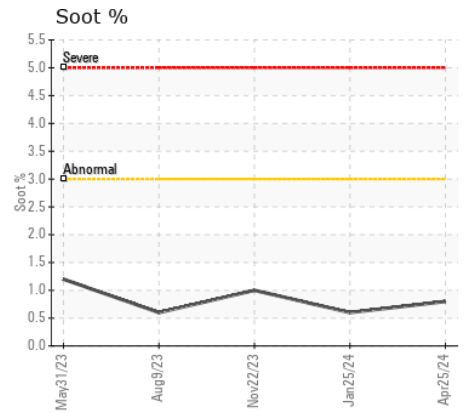
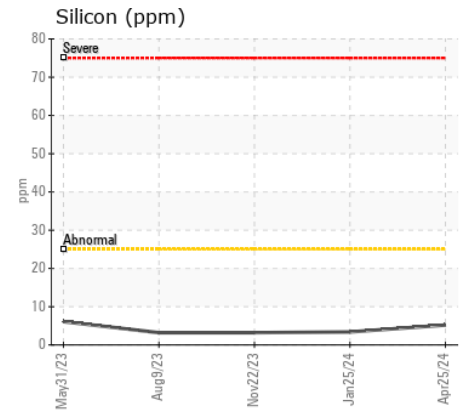
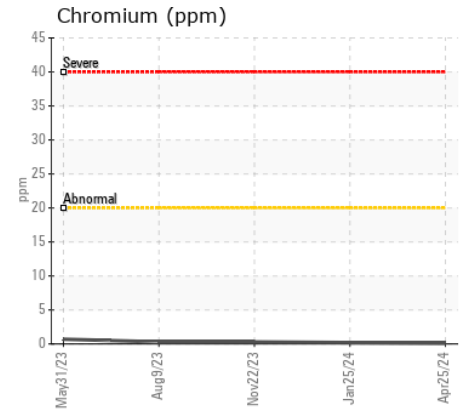
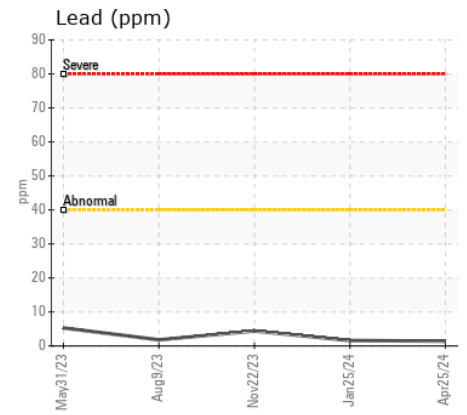
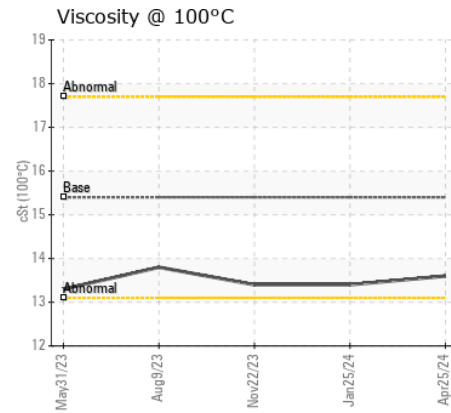
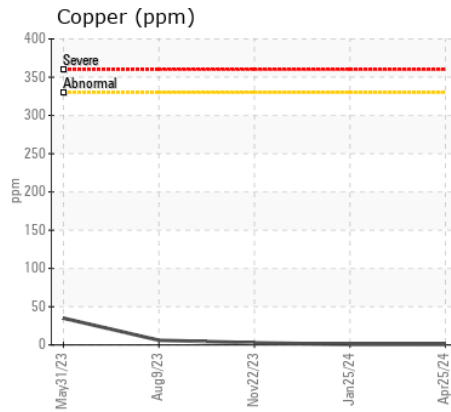
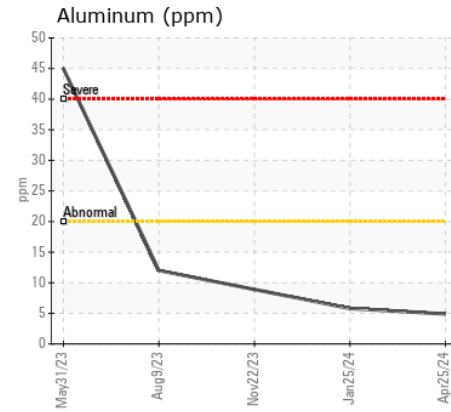
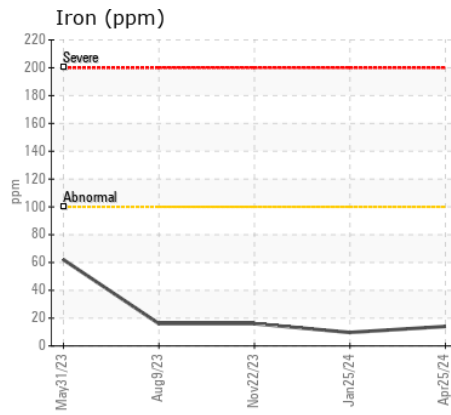
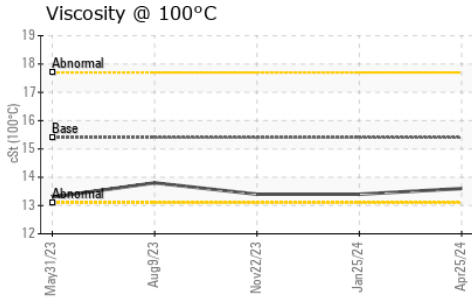
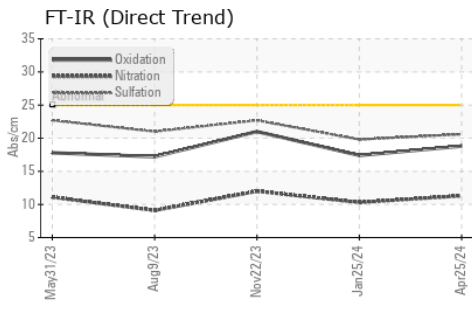
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	3	3
Potassium	ppm	ASTM D5185(m)	>20	3	3	6
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.8	0.6	1
Nitration	Abs/cm	ASTM D7624*	>20	11.3	10.3	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	19.8	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)		2	2	3
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	60	59	60
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	958	948	933
Calcium	ppm	ASTM D5185(m)	1070	1054	1076	1082
Phosphorus	ppm	ASTM D5185(m)	1150	1014	1012	945
Zinc	ppm	ASTM D5185(m)	1270	1183	1208	1169
Sulfur	ppm	ASTM D5185(m)	2060	2622	2757	2467
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.8	17.4	21.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	13.4	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118496
Lab Number : 02631835
Unique Number : 5772988
Test Package : MOB 1
Received : 29 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 2024 - Wes Davis

GFL Environmental - 207 - Pickering SW
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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.