



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
901123
 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		GFL0125530	GFL0100602	GFL0100638
Sample Date		Client Info		02 Jul 2024	01 Mar 2024	15 Dec 2023
Machine Age	kms	Client Info		312010	16670	301513
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
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)	>110	31	18	11
Chromium	ppm	ASTM D5185(m)	>4	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	4	4	3
Lead	ppm	ASTM D5185(m)	>45	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>85	2	2	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

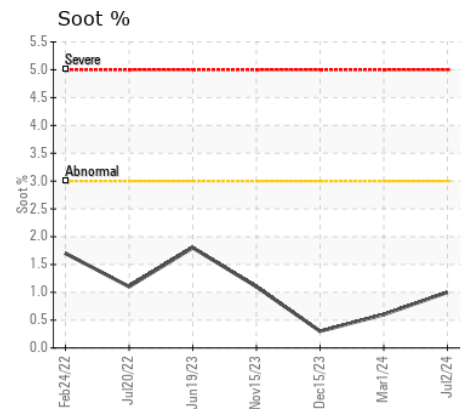
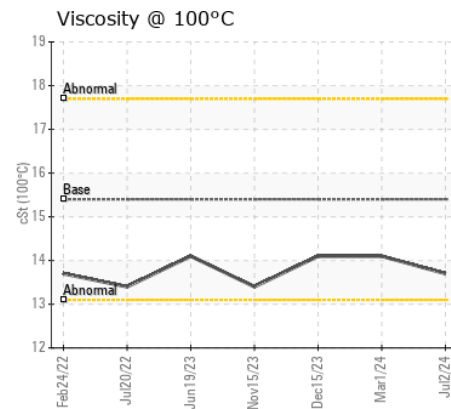
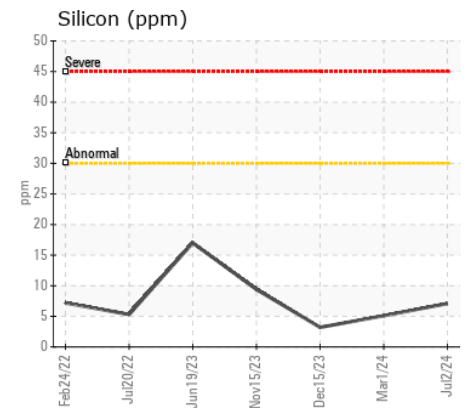
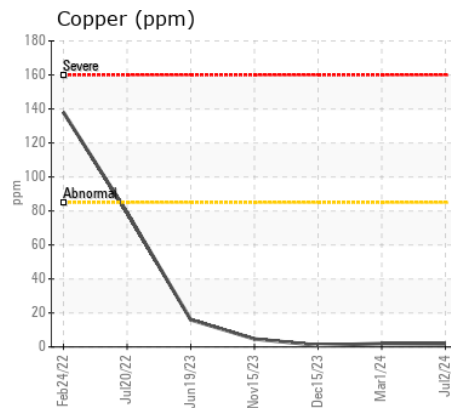
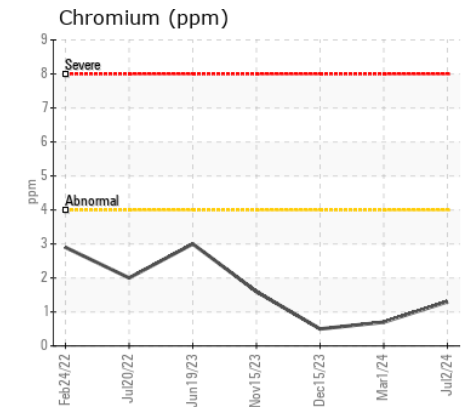
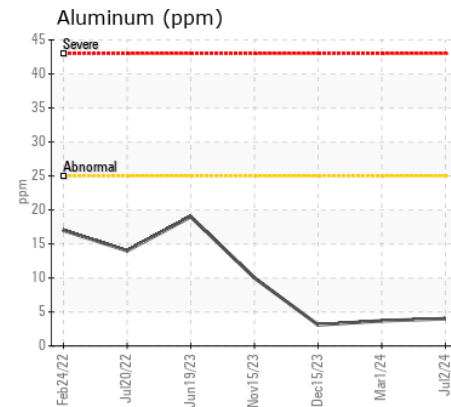
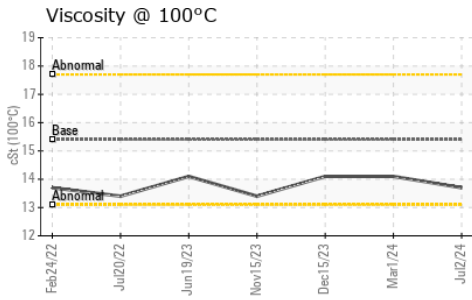
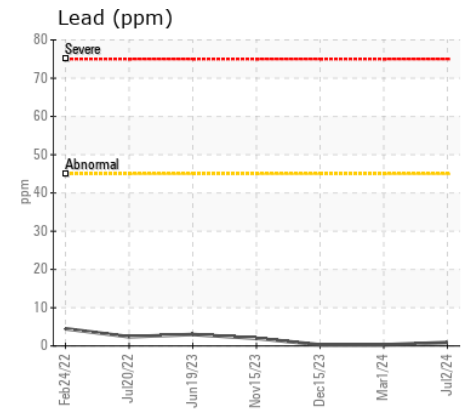
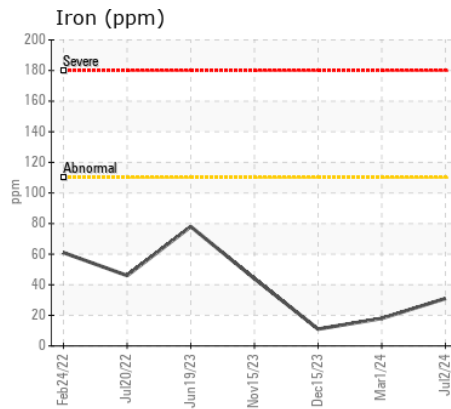
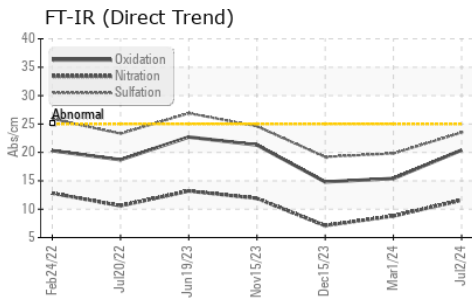
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	7	5	3
Potassium	ppm	ASTM D5185(m)	>20	1	2	1
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	1	0.6	0.3
Nitration	Abs/cm	ASTM D7624*	>20	11.6	8.8	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	19.8	19.2
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)		7	4	4
Boron	ppm	ASTM D5185(m)	0	2	3	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	60	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	957	957	947
Calcium	ppm	ASTM D5185(m)	1070	1062	1078	1055
Phosphorus	ppm	ASTM D5185(m)	1150	945	1000	991
Zinc	ppm	ASTM D5185(m)	1270	1191	1182	1162
Sulfur	ppm	ASTM D5185(m)	2060	2396	2640	2688
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4	15.4	14.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.7	14.1	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0125530
Lab Number : 02645764
Unique Number : 5803303
Test Package : MOB 1
Received : 05 Jul 2024
Tested : 05 Jul 2024
Diagnosed : 05 Jul 2024 - Wes Davis

GFL Environmental - 575 - Squamish Hauling
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 CA V8B 0K8
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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.