



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
401143
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		GFL0100574	GFL0076996	GFL0035394
Sample Date		Client Info		03 May 2024	30 Jul 2023	04 Dec 2021
Machine Age	hrs	Client Info		457070	3585	763
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	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)	>100	47	42	37
Chromium	ppm	ASTM D5185(m)	>20	<1	1	4
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	3	3	4
Lead	ppm	ASTM D5185(m)	>40	6	9	3
Copper	ppm	ASTM D5185(m)	>330	4	1	1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

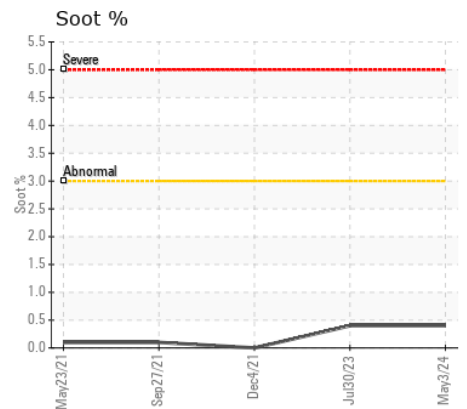
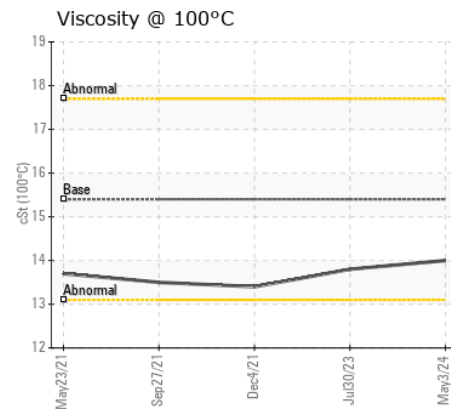
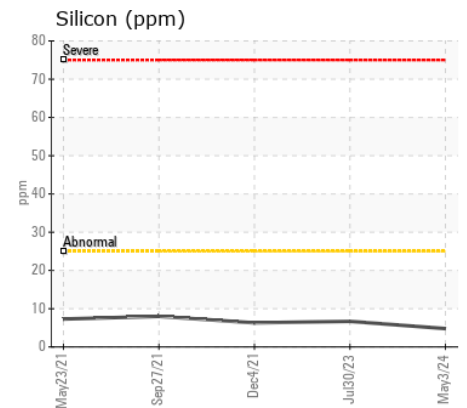
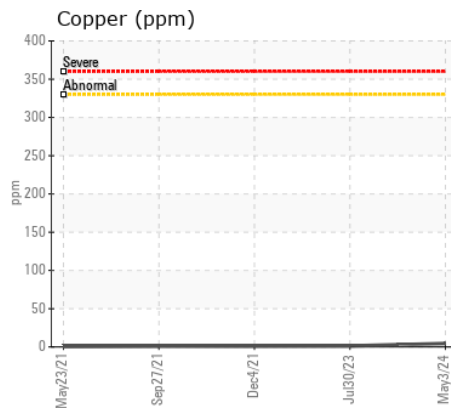
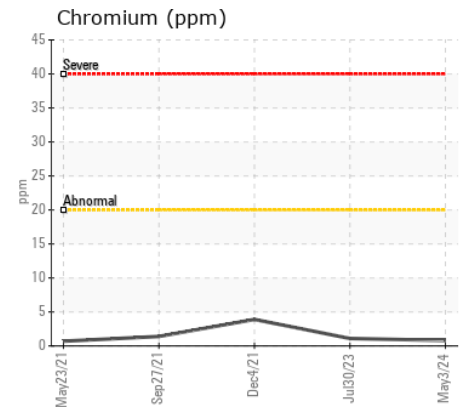
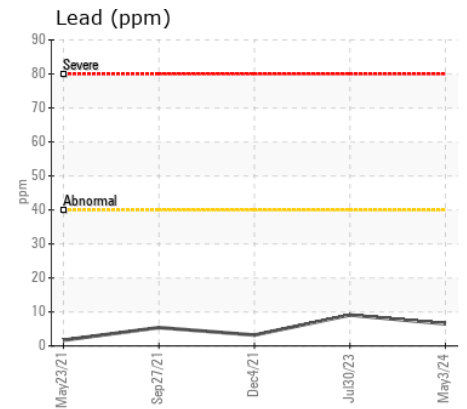
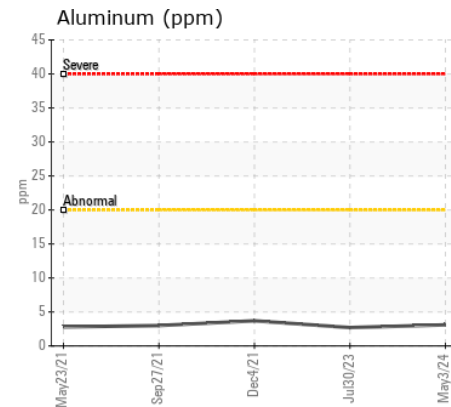
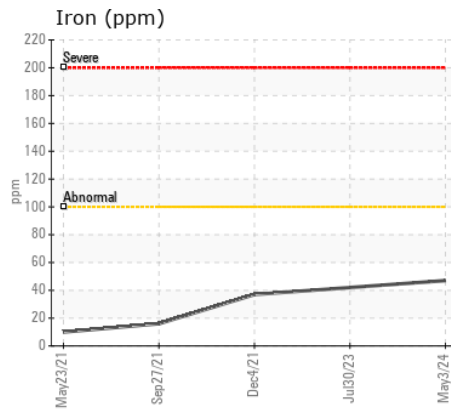
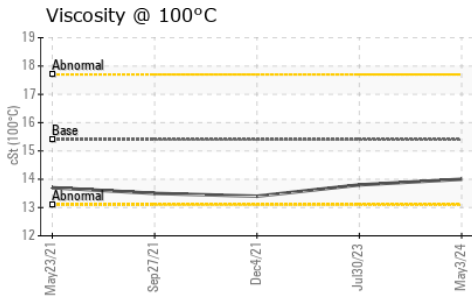
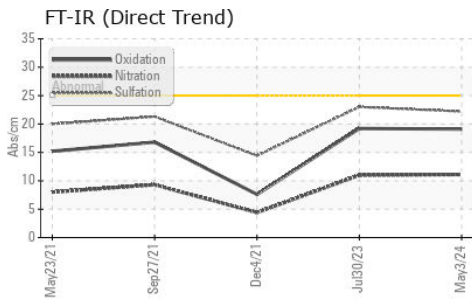
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	7	6
Potassium	ppm	ASTM D5185(m)	>20	2	2	6
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	0.4	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	11.1	11.0	4.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.2	23.0	14.4
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)		6	6	5
Boron	ppm	ASTM D5185(m)	0	3	2	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	66	64	61
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	1071	1053	1058
Calcium	ppm	ASTM D5185(m)	1070	1192	1114	1109
Phosphorus	ppm	ASTM D5185(m)	1150	1055	1103	1062
Zinc	ppm	ASTM D5185(m)	1270	1301	1279	1282
Sulfur	ppm	ASTM D5185(m)	2060	2434	2435	2502
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	19.2	7.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	13.8	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100574
Lab Number : 02634018
Unique Number : 5775171
Test Package : MOB 1
Received : 08 May 2024
Tested : 08 May 2024
Diagnosed : 08 May 2024 - Wes Davis

GFL Environmental - 575 - Squamish Hauling
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 Squamish, BC
 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.