



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
401157
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		GFL0100599	GFL0077036	GFL0054638
Sample Date		Client Info		12 Feb 2024	05 Jul 2023	12 Jun 2022
Machine Age	hrs	Client Info		12160	10709	7924
Oil Age	hrs	Client Info		7924	0	600
Filter Age	hrs	Client Info		7924	0	600
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>65	16	21	11
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>3	0	0	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>35	8	6	6
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
Copper	ppm	ASTM D5185(m)	>180	2	4	4
Tin	ppm	ASTM D5185(m)	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

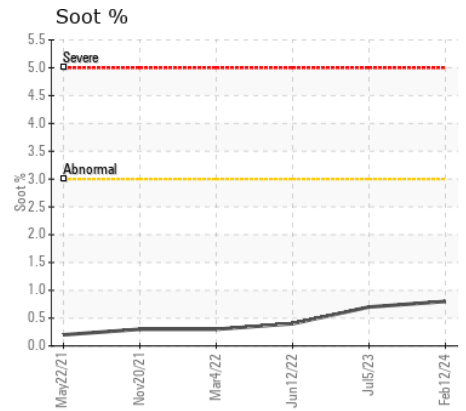
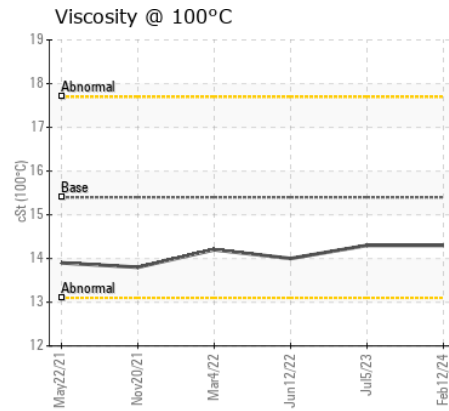
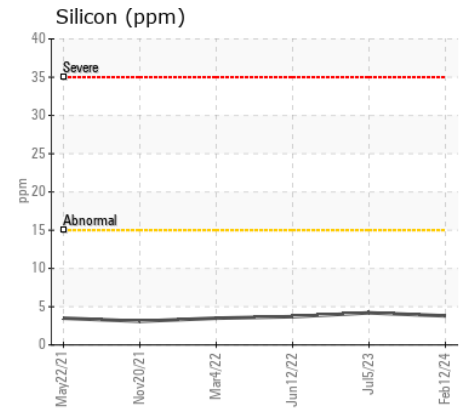
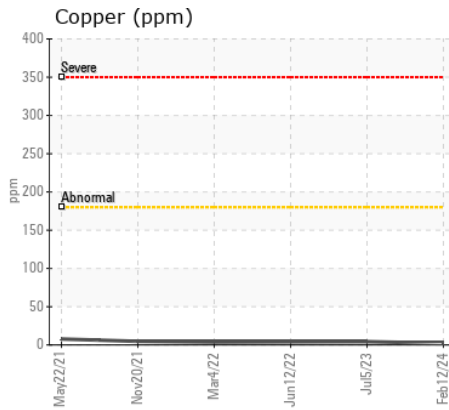
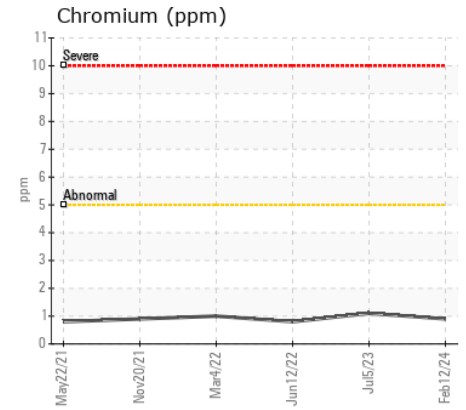
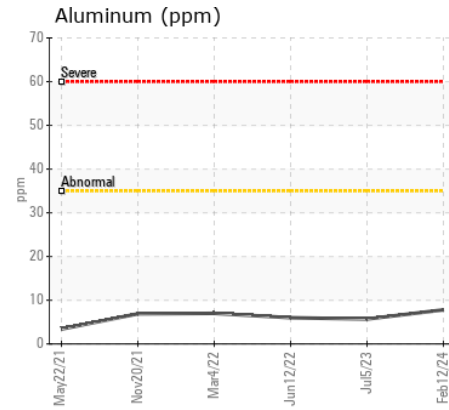
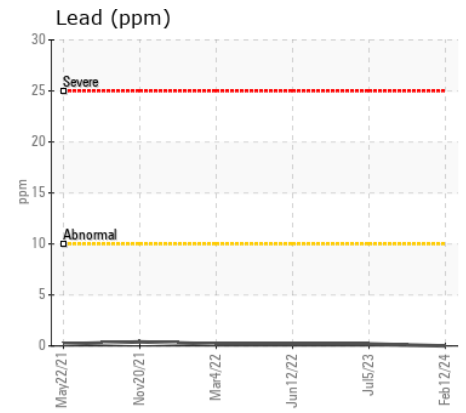
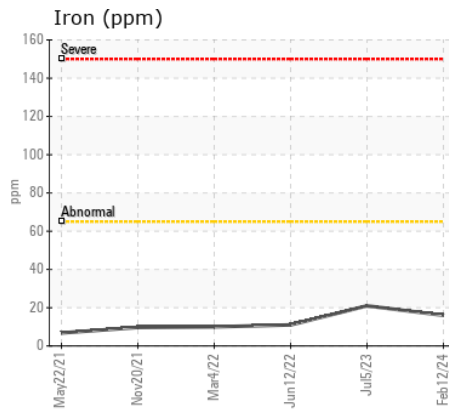
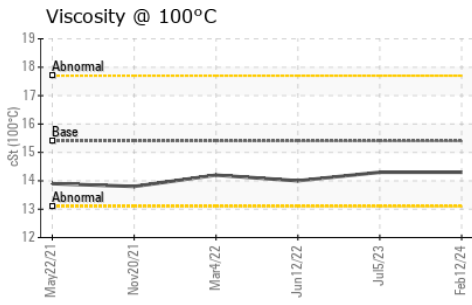
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	4	4	4
Potassium	ppm	ASTM D5185(m)	>20	3	3	5
Fuel		WC Method	>3.0	<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	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.0	8.6	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	20.5	21.8
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)		1	2	2
Boron	ppm	ASTM D5185(m)	0	2	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	61	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	961	1005	981
Calcium	ppm	ASTM D5185(m)	1070	1084	1070	1092
Phosphorus	ppm	ASTM D5185(m)	1150	1007	1057	996
Zinc	ppm	ASTM D5185(m)	1270	1175	1217	1212
Sulfur	ppm	ASTM D5185(m)	2060	2584	2380	2410
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.2	15.9	15.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.3	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100599
Lab Number : 02616932
Unique Number : 5734042
Test Package : MOB 1
Received : 21 Feb 2024
Tested : 21 Feb 2024
Diagnosed : 21 Feb 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.