



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
929003
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113270	GFL0061107	GFL0088931
Sample Date		Client Info		11 Apr 2024	06 Oct 2023	17 Jul 2023
Machine Age	hrs	Client Info		15698	15698	15138
Oil Age	hrs	Client Info		15698	15138	434
Filter Age	hrs	Client Info		549	15138	434
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	25	15	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	5	2	2
Lead	ppm	ASTM D5185(m)	>40	0	5	2
Copper	ppm	ASTM D5185(m)	>330	1	13	4
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

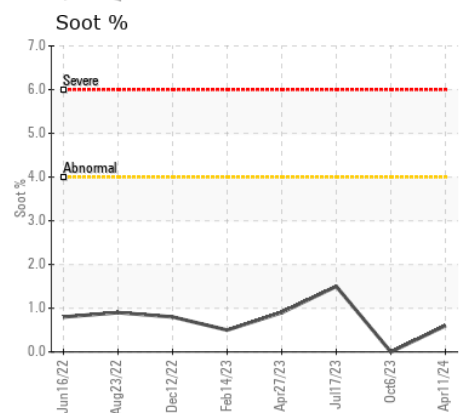
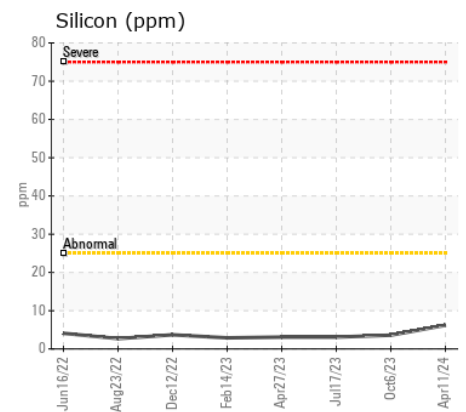
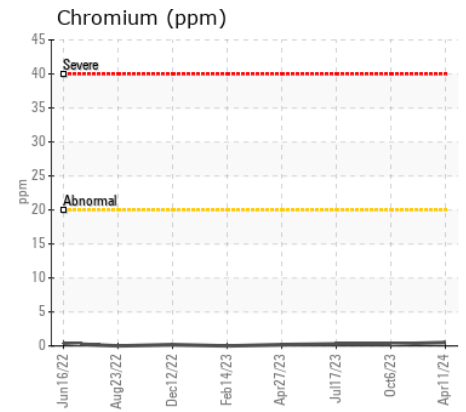
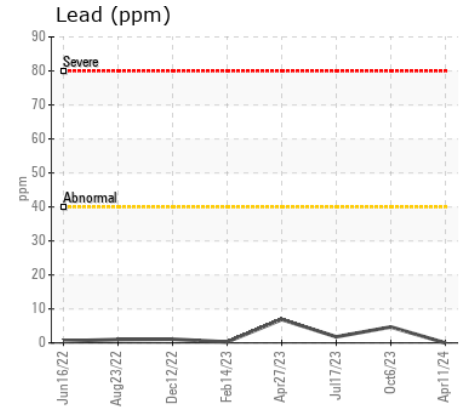
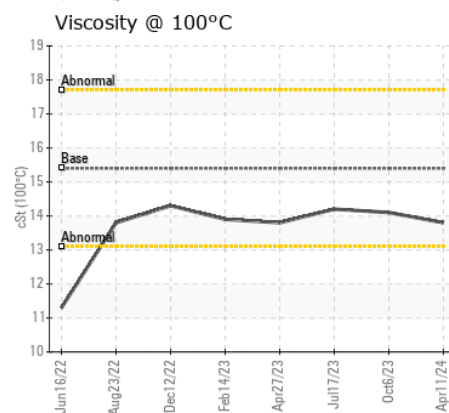
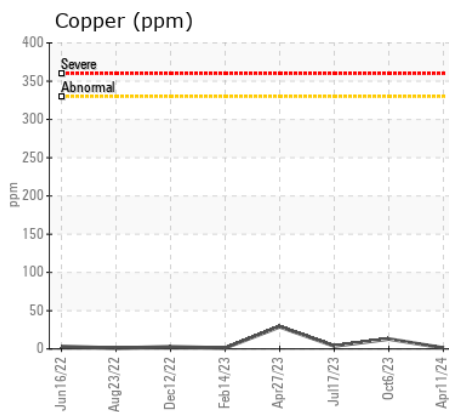
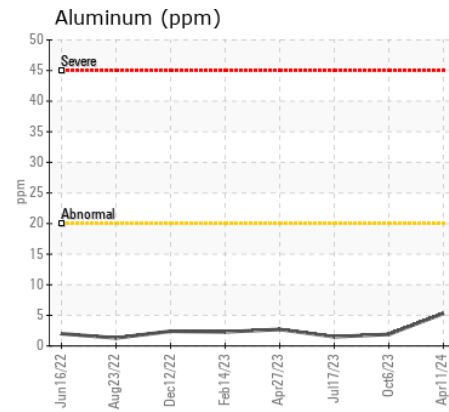
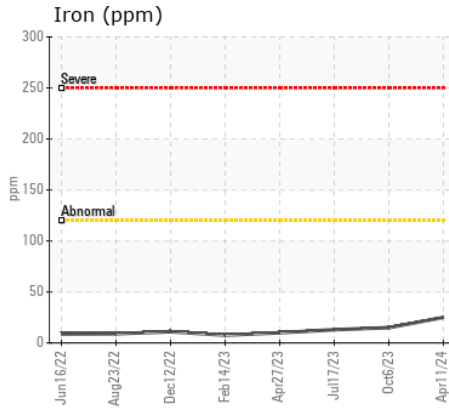
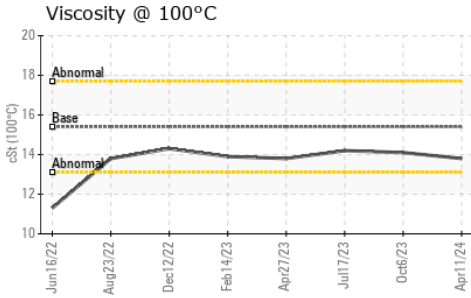
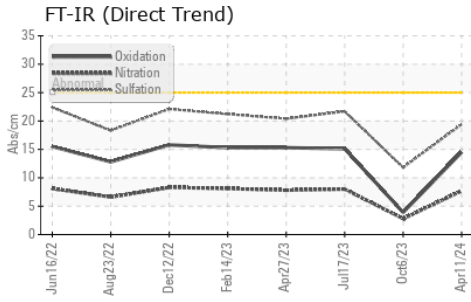
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	4	3
Potassium	ppm	ASTM D5185(m)	>20	3	<1	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.6	0	1.5
Nitration	Abs/cm	ASTM D7624*	>20	7.7	2.8	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	11.8	21.7
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)		4	5	4
Boron	ppm	ASTM D5185(m)	0	3	3	4
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	60	62	60
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	972	967	973
Calcium	ppm	ASTM D5185(m)	1070	1052	1053	1049
Phosphorus	ppm	ASTM D5185(m)	1150	976	951	1003
Zinc	ppm	ASTM D5185(m)	1270	1170	1202	1190
Sulfur	ppm	ASTM D5185(m)	2060	2409	2160	2306
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.5	3.9	15.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	14.1	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113270
Lab Number : 02628745
Unique Number : 5761877
Test Package : MOB 1
Received : 15 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 16 Apr 2024 - Kevin Marson

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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.