

Area
[1249066]
 Machine Id
514002
 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		GFL0110672	GFL0110701	GFL0094524
Sample Date		Client Info		26 Mar 2024	18 Jan 2024	10 Nov 2023
Machine Age	hrs	Client Info		29738	29242	28643
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	6	8	6
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>150	<1	1	1
Copper	ppm	ASTM D5185(m)	>90	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

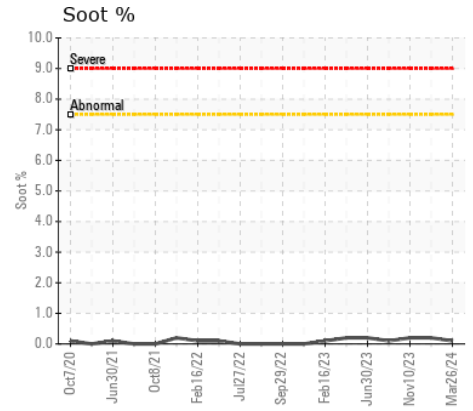
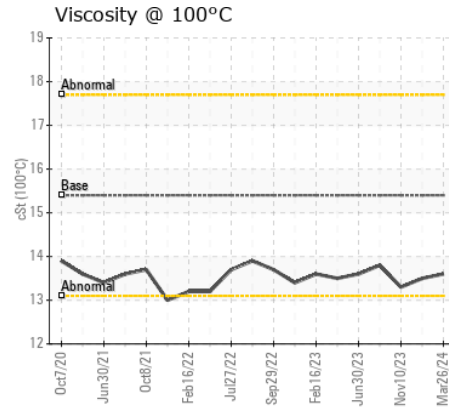
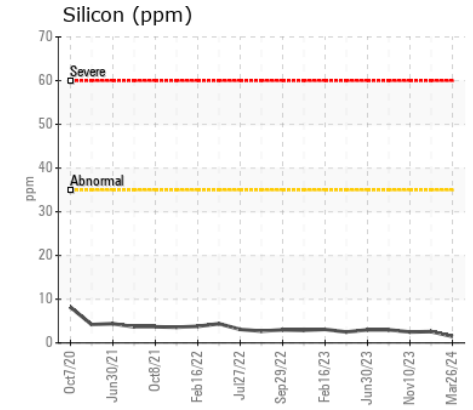
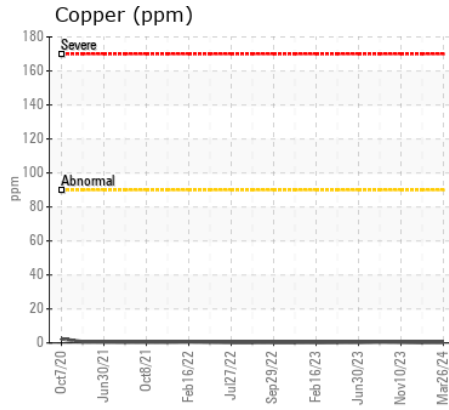
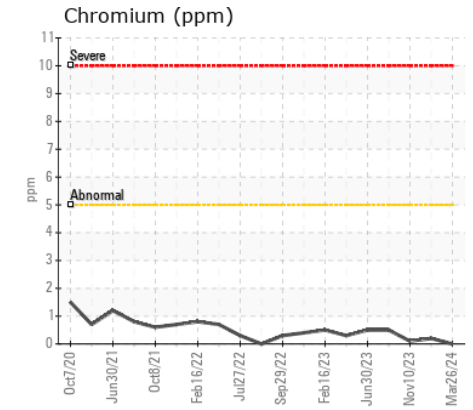
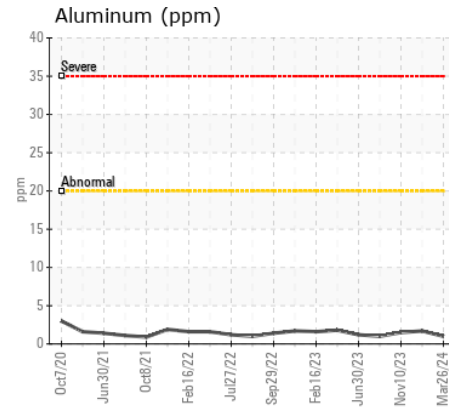
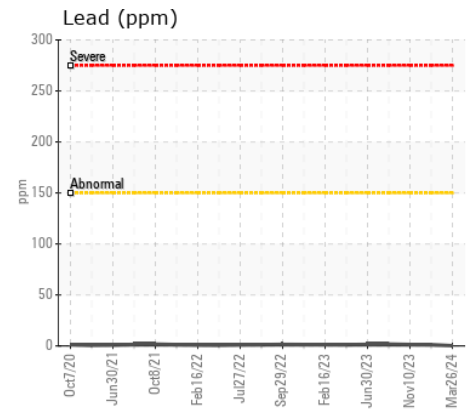
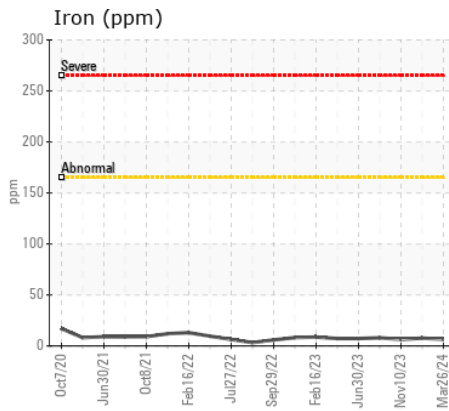
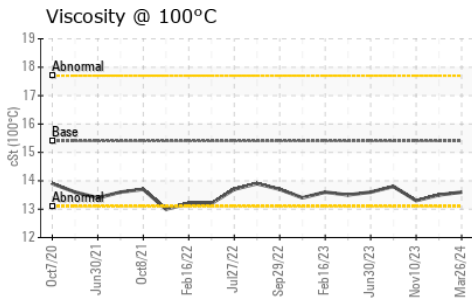
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	2	3	2
Potassium	ppm	ASTM D5185(m)	>20	<1	1	0
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*	>7.5	0.1	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	6.5	6.8	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.3	18.6	18.6
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)		3	3	6
Boron	ppm	ASTM D5185(m)	0	3	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	59	59	59
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	985	968	977
Calcium	ppm	ASTM D5185(m)	1070	1044	1095	1053
Phosphorus	ppm	ASTM D5185(m)	1150	1002	1010	1009
Zinc	ppm	ASTM D5185(m)	1270	1190	1190	1204
Sulfur	ppm	ASTM D5185(m)	2060	2570	2730	2512
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	13.8	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	13.5	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0110672
Lab Number : 02625121
Unique Number : 5750240
Test Package : MOB 1

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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.