



Machine Id
7982
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (19 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117885	GFL0111723	GFL0107142
Sample Date		Client Info		02 Apr 2024	18 Mar 2024	05 Jan 2024
Machine Age	hrs	Client Info		126359	12145	126359
Oil Age	hrs	Client Info		0	600	0
Filter Age	hrs	Client Info		0	600	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				MARGINAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	6	19	5
Chromium	ppm	ASTM D5185(m)	>5	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	1	1	2
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

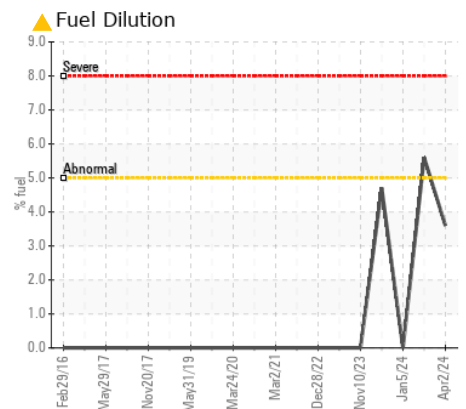
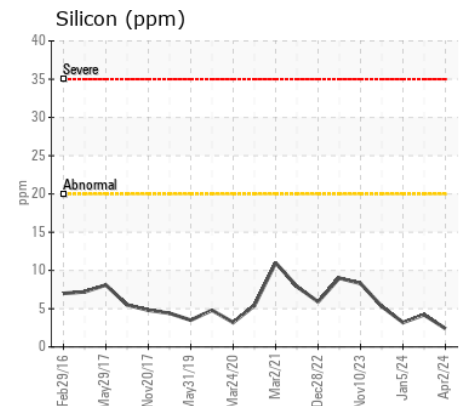
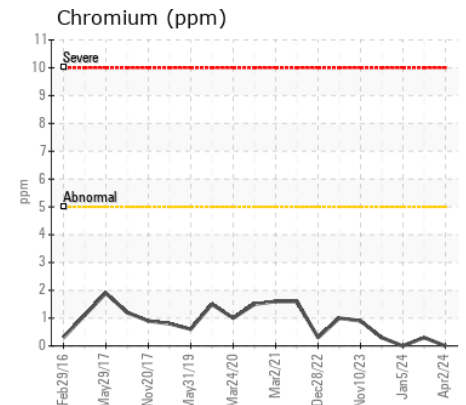
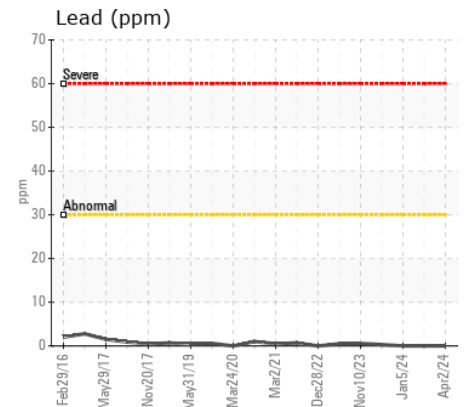
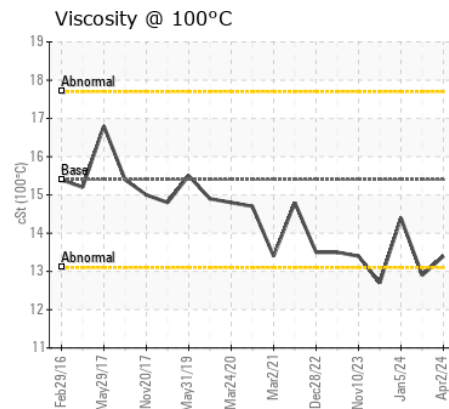
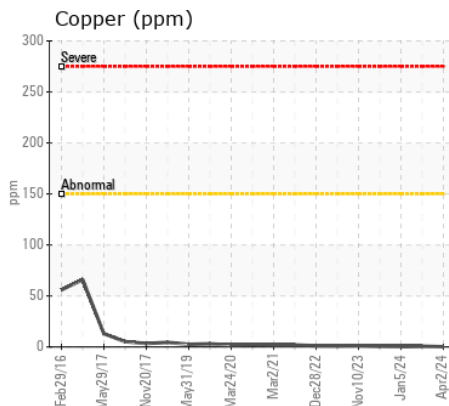
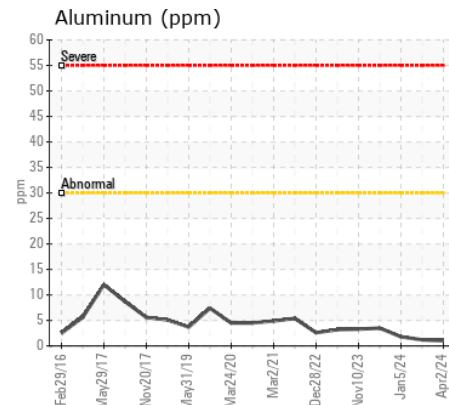
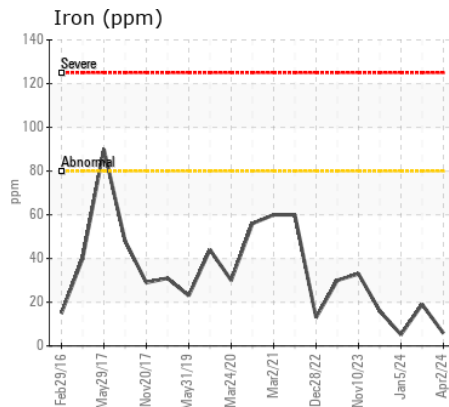
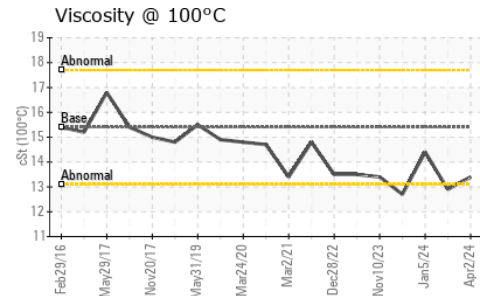
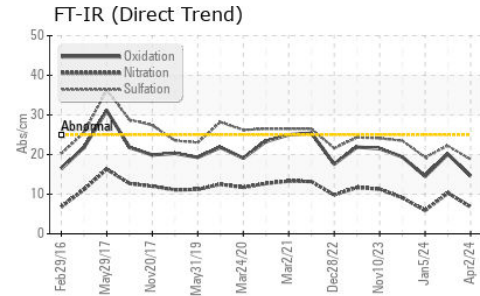
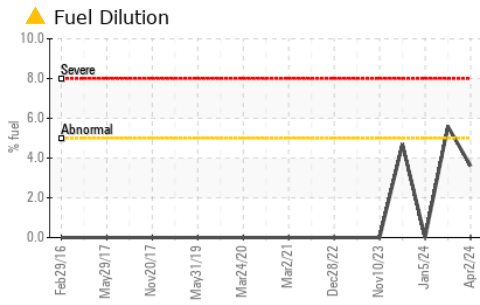
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	2	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	3	<1
Fuel	%	ASTM D7593*	>5	▲ 3.6	▲ 5.6	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.5	0.1
Nitration	Abs/cm	ASTM D7624*	>20	6.8	10.3	5.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	22.2	19.3
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	12	3
Boron	ppm	ASTM D5185(m)	0	11	28	51
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	62	62
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	874	841	845
Calcium	ppm	ASTM D5185(m)	1070	1004	1077	1081
Phosphorus	ppm	ASTM D5185(m)	1150	954	946	1011
Zinc	ppm	ASTM D5185(m)	1270	1114	1139	1168
Sulfur	ppm	ASTM D5185(m)	2060	2439	2291	2728
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	20.1	14.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.4	▲ 12.9	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117885 **Received** : 04 Apr 2024
Lab Number : 02626519 **Tested** : 05 Apr 2024
Unique Number : 5759651 **Diagnosed** : 05 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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.