



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[1280240]

Machine Id

1202

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (42 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118514	GFL0102689	GFL0088997
Sample Date		Client Info		21 May 2024	29 Nov 2023	02 Sep 2023
Machine Age	hrs	Client Info		17331	16865	16595
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	13	10	16
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>150	<1	3	11
Copper	ppm	ASTM D5185(m)	>90	<1	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

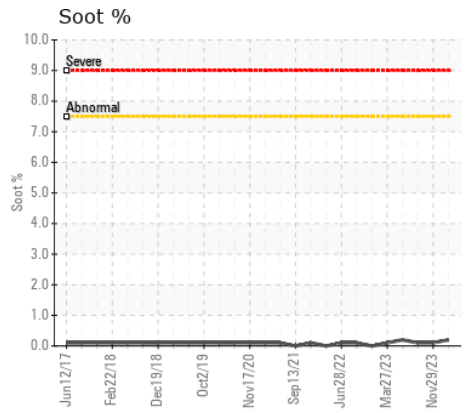
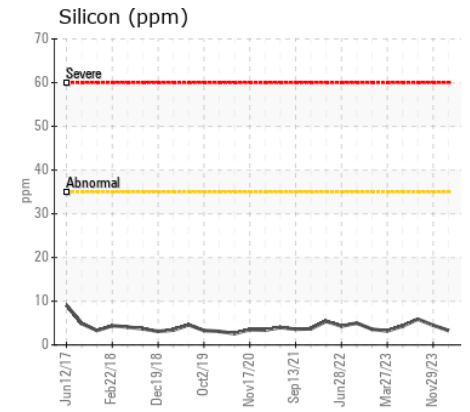
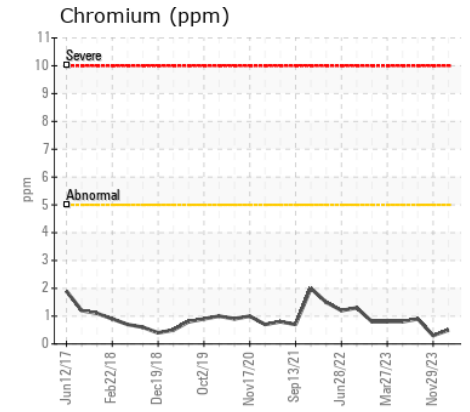
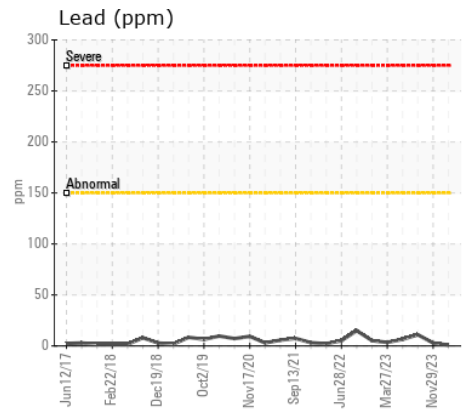
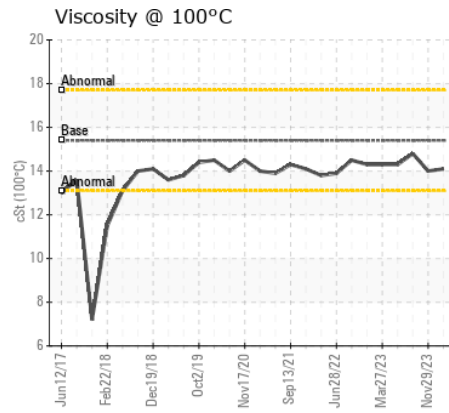
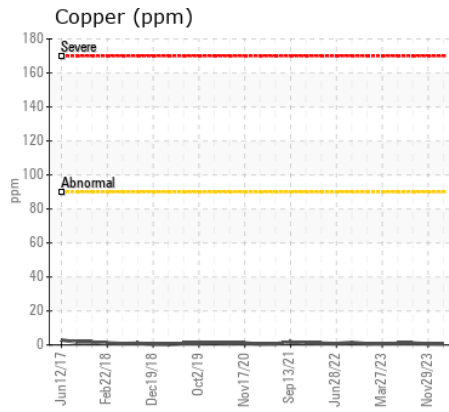
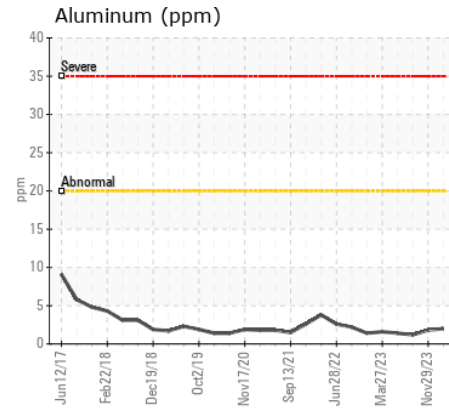
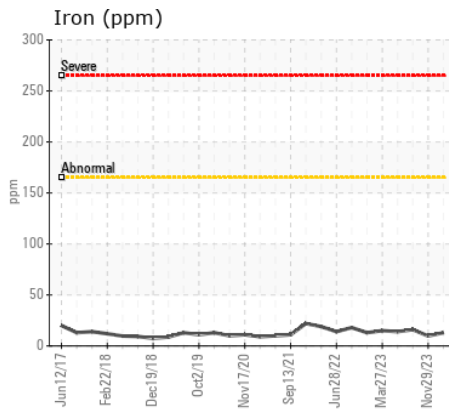
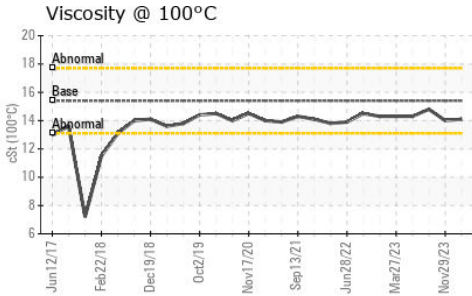
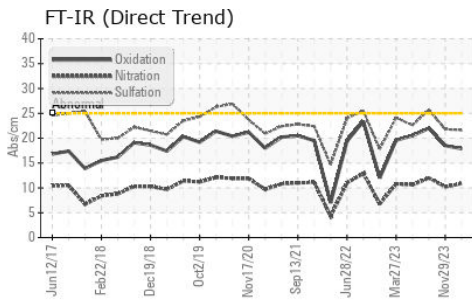
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	3	4	6
Potassium	ppm	ASTM D5185(m)	>20	4	2	2
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	0.2	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.9	10.2	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6	21.8	25.7
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	4	5
Boron	ppm	ASTM D5185(m)	0	4	3	4
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	63	58	64
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	1050	987	1068
Calcium	ppm	ASTM D5185(m)	1070	1132	1081	1152
Phosphorus	ppm	ASTM D5185(m)	1150	1063	1014	1118
Zinc	ppm	ASTM D5185(m)	1270	1277	1241	1321
Sulfur	ppm	ASTM D5185(m)	2060	2596	2512	2609
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.9	18.5	22.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.0	14.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118514
Lab Number : 02637055
Unique Number : 5786217
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.