



Machine Id
701027
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (22 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107138	GFL0107147	GFL0094192
Sample Date		Client Info		18 Jan 2024	15 Jan 2024	18 Oct 2023
Machine Age	hrs	Client Info		186902	11377	186902
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	11	58	7
Chromium	ppm	ASTM D5185(m)	>5	<1	4	0
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	2	10	2
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
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

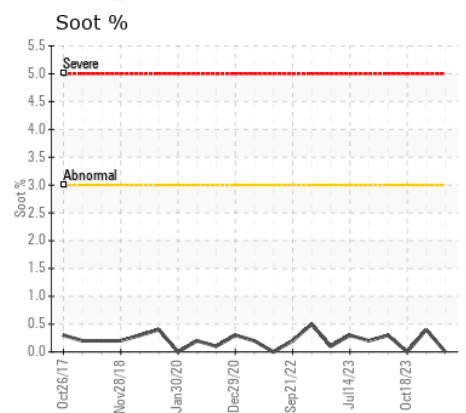
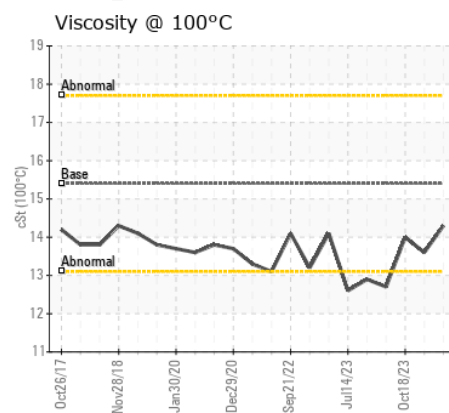
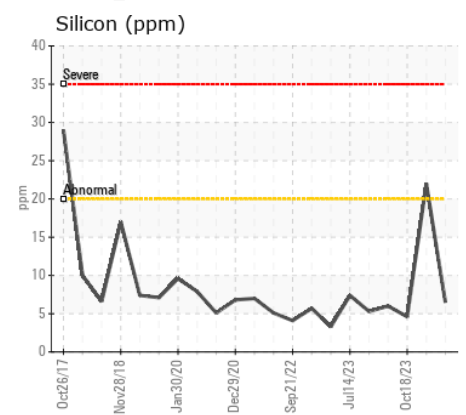
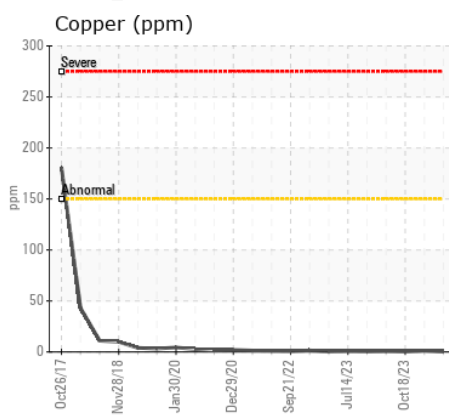
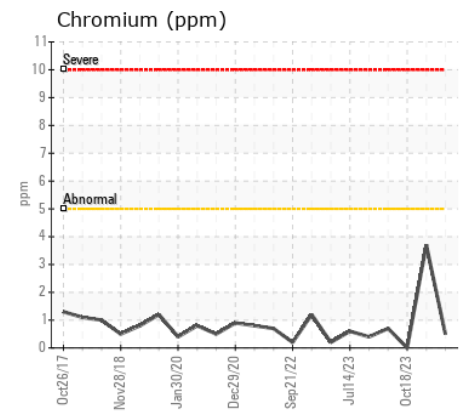
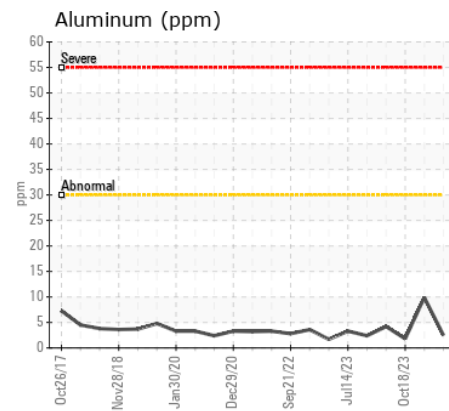
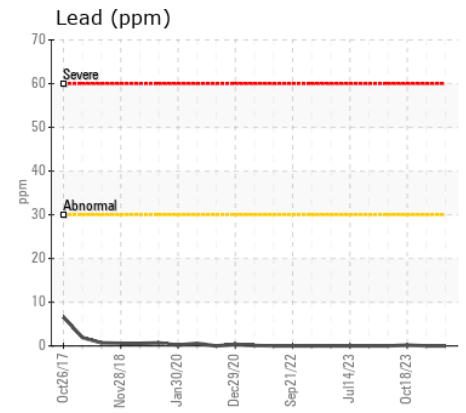
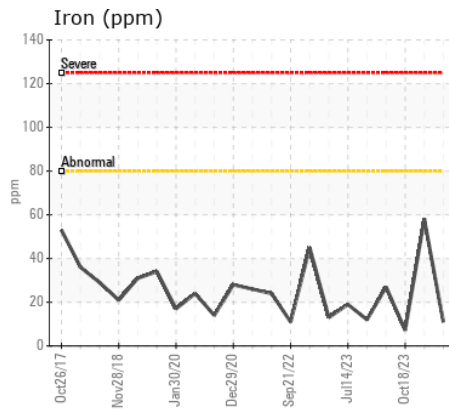
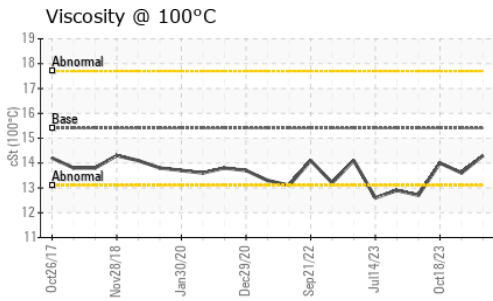
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	▲ 22	5
Potassium	ppm	ASTM D5185(m)	>20	2	9	2
Fuel		WC Method	>5	<1.0	<1.0	1.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	6.1	13.6	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	25.9	19.5
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)		7	31	6
Boron	ppm	ASTM D5185(m)	0	14	28	70
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	57	60	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	901	811	810
Calcium	ppm	ASTM D5185(m)	1070	1017	1079	1065
Phosphorus	ppm	ASTM D5185(m)	1150	965	926	956
Zinc	ppm	ASTM D5185(m)	1270	1121	1111	1115
Sulfur	ppm	ASTM D5185(m)	2060	2673	2436	2487
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	26.2	15.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	13.6	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107138
Lab Number : 02610146
Unique Number : 5711232
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.