

Machine Id
801025
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (20 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107126	GFL0094179	GFL
Sample Date		Client Info		16 Jan 2024	17 Oct 2023	15 Aug 2023
Machine Age	hrs	Client Info		81540	81540	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	7	31	25
Chromium	ppm	ASTM D5185(m)	>5	<1	1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	2	2	2
Lead	ppm	ASTM D5185(m)	>30	0	<1	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

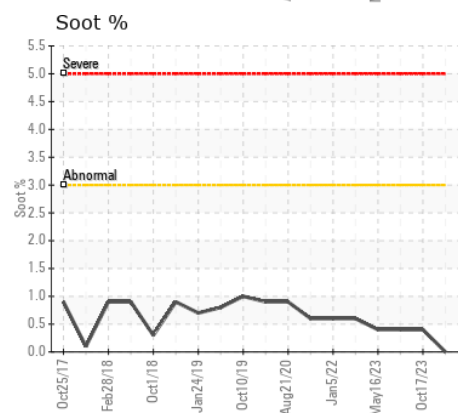
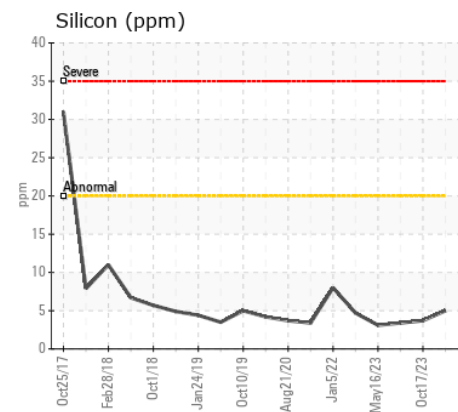
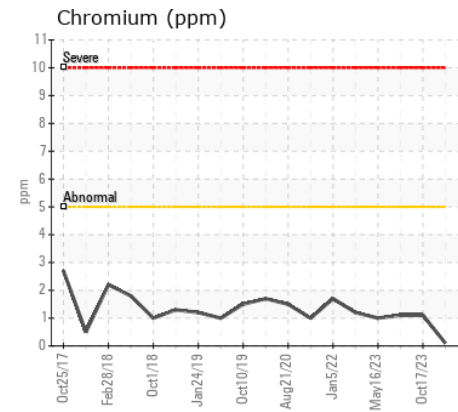
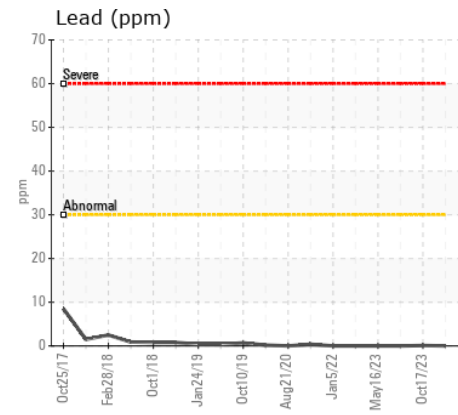
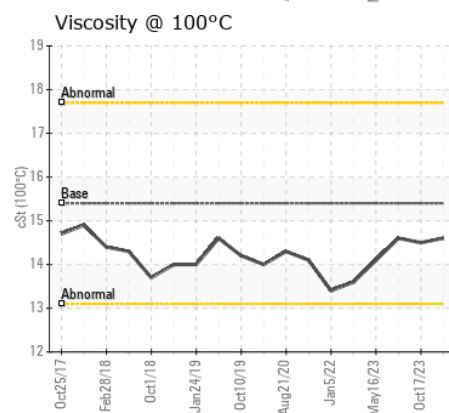
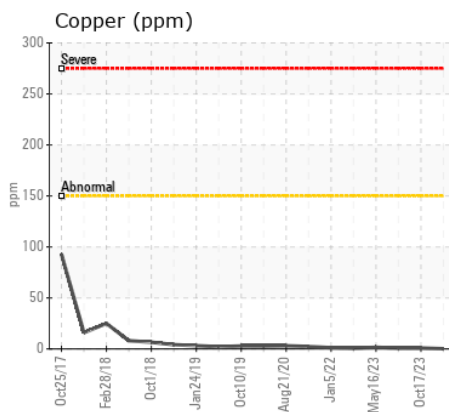
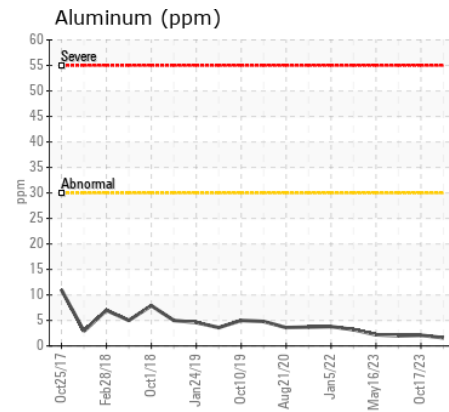
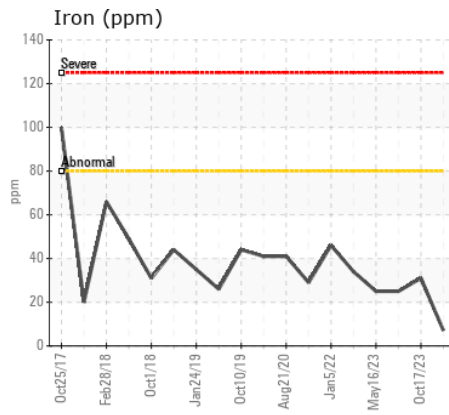
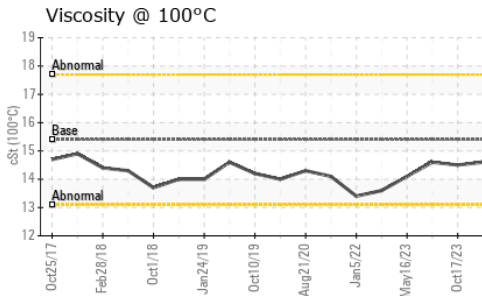
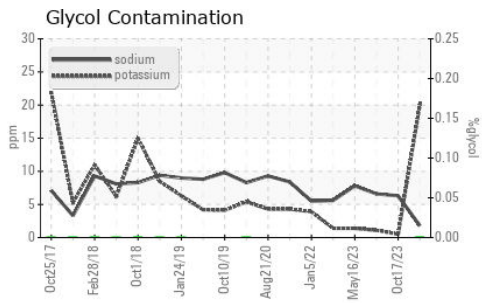
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	4	3
Potassium	ppm	ASTM D5185(m)	>20	20	<1	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	5.7	10.8	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	22.8	22.9
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)		2	6	7
Boron	ppm	ASTM D5185(m)	0	12	5	5
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	56	65	63
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	918	1035	1018
Calcium	ppm	ASTM D5185(m)	1070	1018	1148	1097
Phosphorus	ppm	ASTM D5185(m)	1150	991	1098	1115
Zinc	ppm	ASTM D5185(m)	1270	1133	1293	1269
Sulfur	ppm	ASTM D5185(m)	2060	2695	2460	2501
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.1	19.7	19.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.6	14.5	14.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107126 **Received** : 18 Jan 2024
Lab Number : 02609608 **Diagnosed** : 18 Jan 2024
Unique Number : 5710694 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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.