



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
701031
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (25 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0111748	GFL0107154	GFL0094221
Sample Date		Client Info		27 Feb 2024	15 Dec 2023	08 Sep 2023
Machine Age	kms	Client Info		152254	9830	152254
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	10	17	10
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<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	3	4	2
Lead	ppm	ASTM D5185(m)	>30	<1	<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

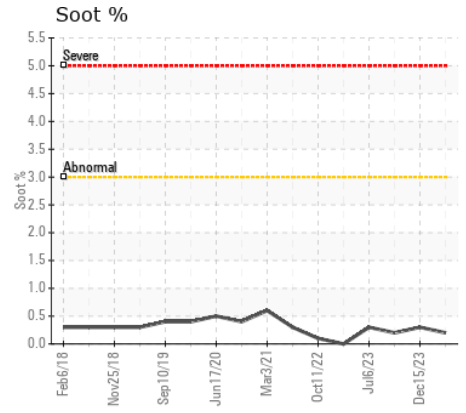
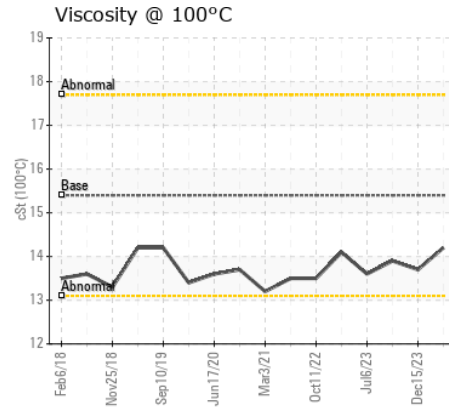
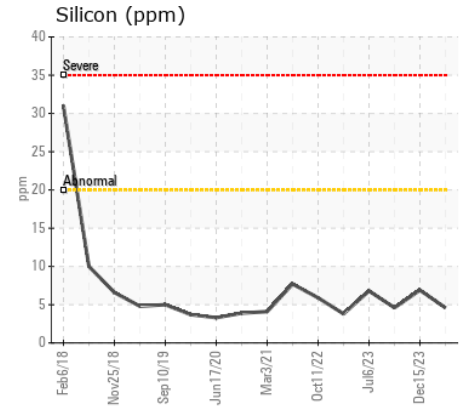
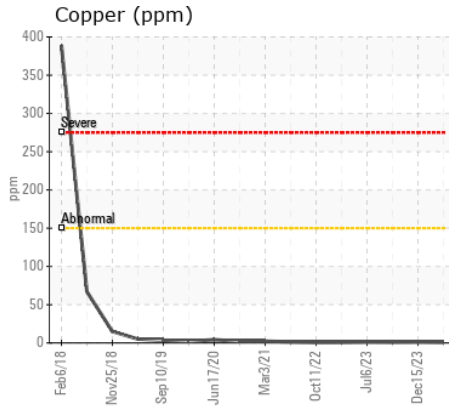
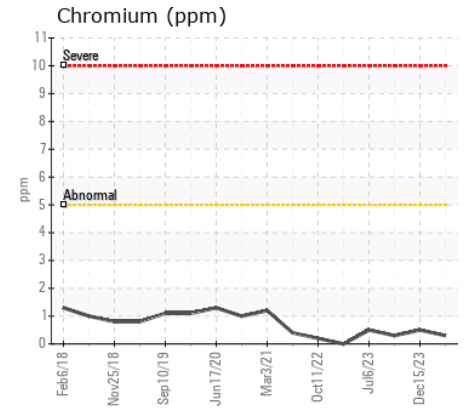
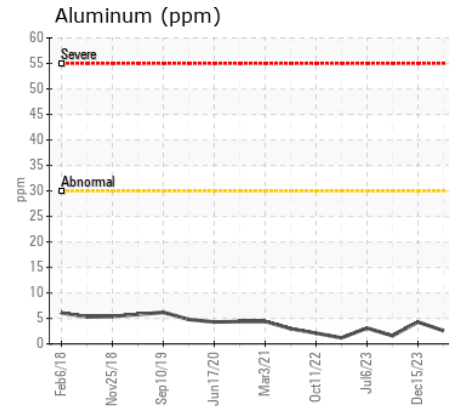
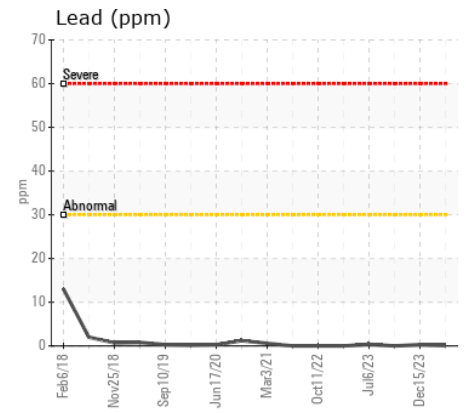
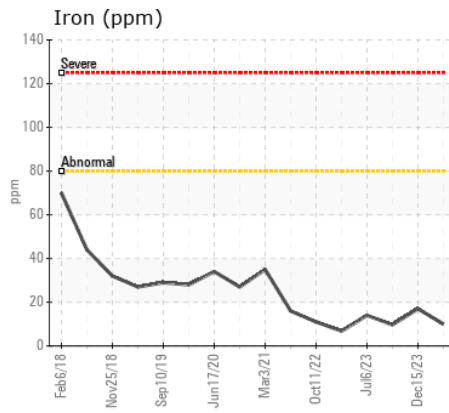
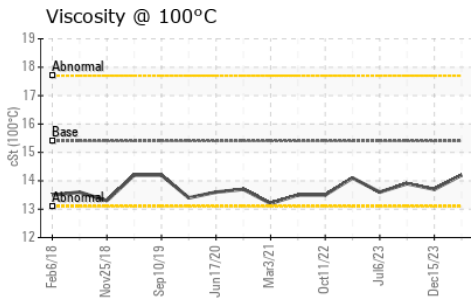
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	7	5
Potassium	ppm	ASTM D5185(m)	>20	2	0	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.1	9.2	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	19.5	18.8
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)		5	6	6
Boron	ppm	ASTM D5185(m)	0	13	2	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	58	58
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	914	935	930
Calcium	ppm	ASTM D5185(m)	1070	1023	1071	1028
Phosphorus	ppm	ASTM D5185(m)	1150	981	978	1022
Zinc	ppm	ASTM D5185(m)	1270	1147	1175	1153
Sulfur	ppm	ASTM D5185(m)	2060	2585	2526	2467
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	16.4	14.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	13.7	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0111748
Lab Number : 02618850
Unique Number : 5735960
Test Package : MOB 1
Received : 29 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 01 Mar 2024 - Wes Davis

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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.