

Machine Id
701038
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0123474	GFL0097444	GFL0085660
Sample Date		Client Info		25 Jun 2024	09 Jan 2024	08 Nov 2023
Machine Age	hrs	Client Info		757	757	757
Oil Age	hrs	Client Info		757	757	757
Filter Age	hrs	Client Info		757	757	757
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	15	12	20
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	1	<1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

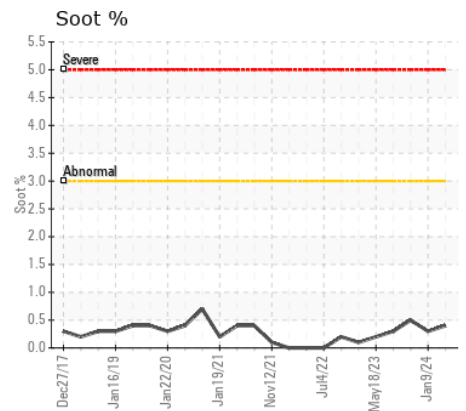
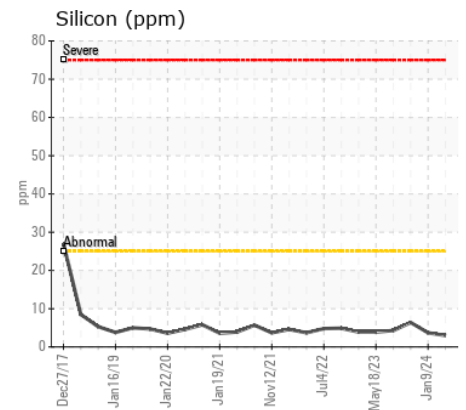
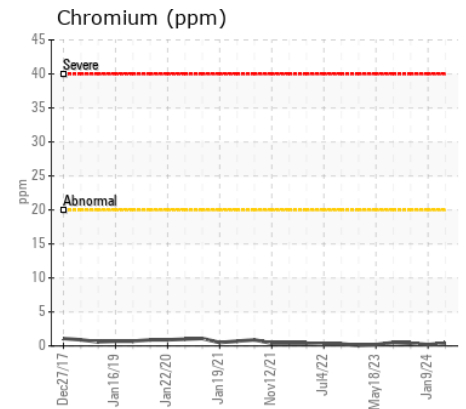
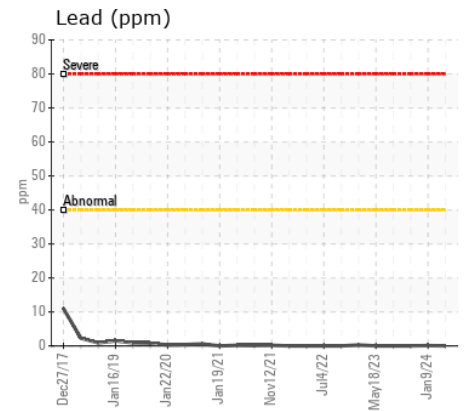
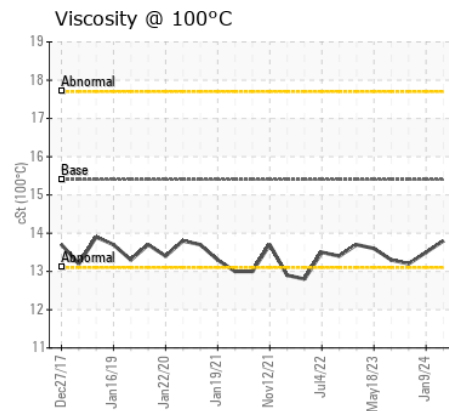
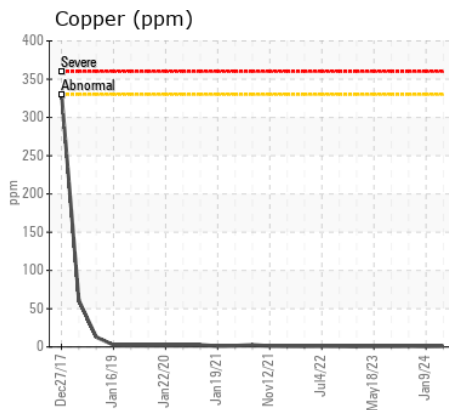
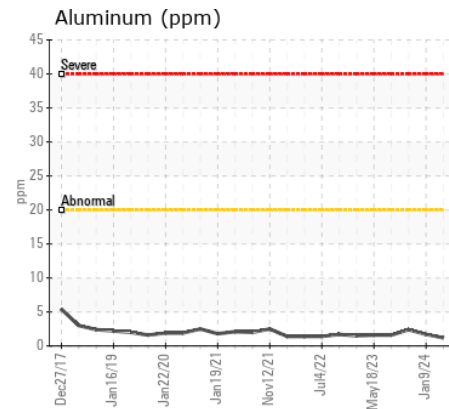
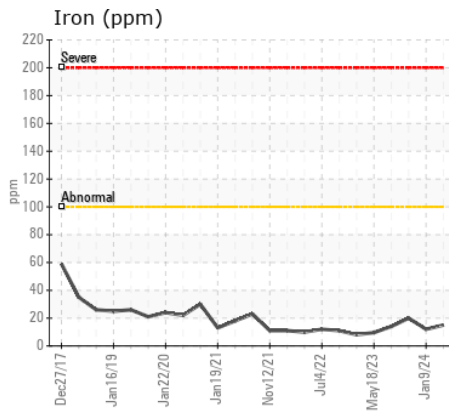
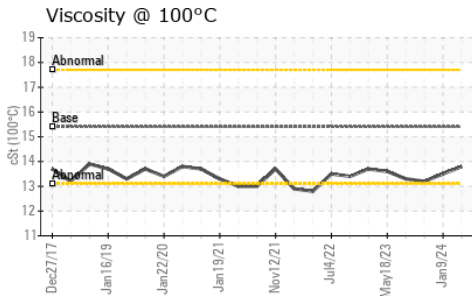
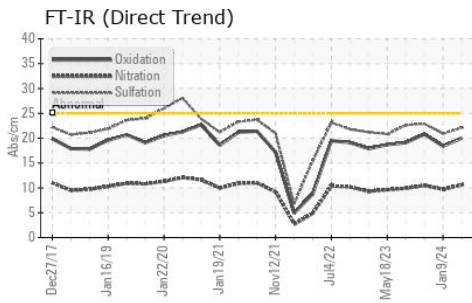
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	6
Potassium	ppm	ASTM D5185(m)	>20	<1	5	2
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	0.4	0.3	0.5
Nitration	Abs/cm	ASTM D7624*	>20	10.6	9.7	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	20.9	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	1	2
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	56	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	934	914	929
Calcium	ppm	ASTM D5185(m)	1070	1013	1015	1010
Phosphorus	ppm	ASTM D5185(m)	1150	949	974	968
Zinc	ppm	ASTM D5185(m)	1270	1163	1134	1151
Sulfur	ppm	ASTM D5185(m)	2060	2304	2478	2248
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.0	18.4	20.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	13.5	13.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0123474
Lab Number : 02644290
Unique Number : 5801829
Test Package : MOB 1

Received : 27 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 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.