



Machine Id
901090
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (36 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113280	GFL0097588	GFL0097530
Sample Date		Client Info		11 Apr 2024	16 Jan 2024	14 Nov 2023
Machine Age	hrs	Client Info		16414	16414	15822
Oil Age	hrs	Client Info		16414	592	545
Filter Age	hrs	Client Info		16414	592	545
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	7	6	6
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
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

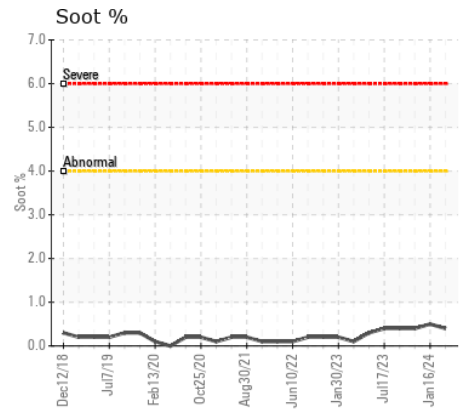
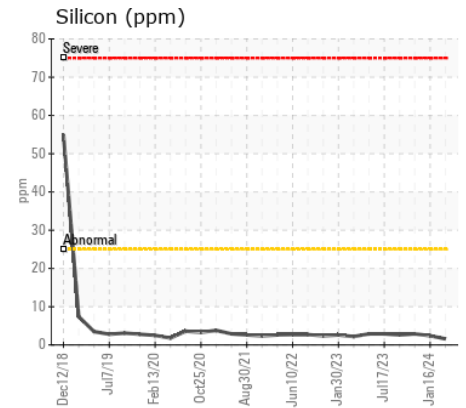
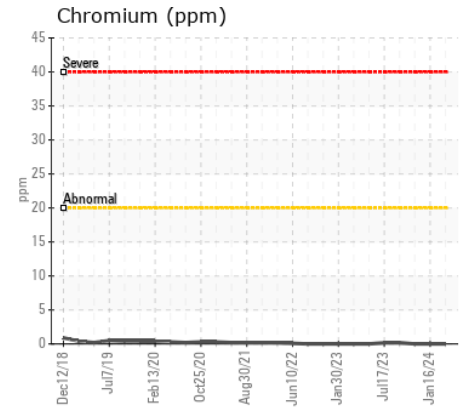
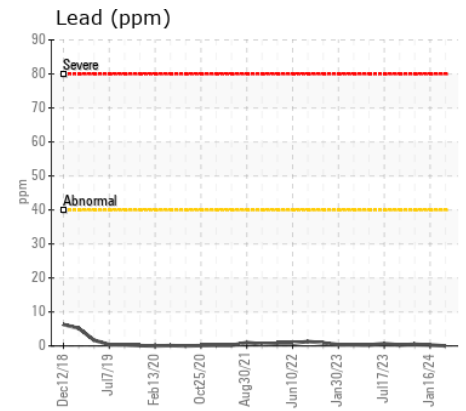
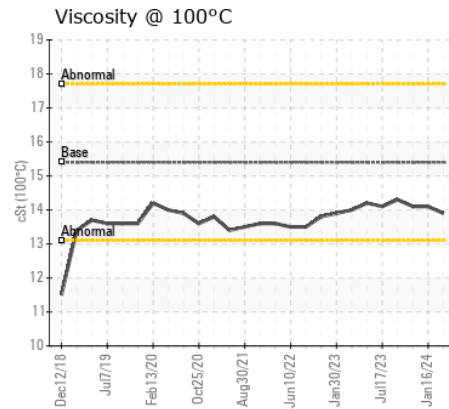
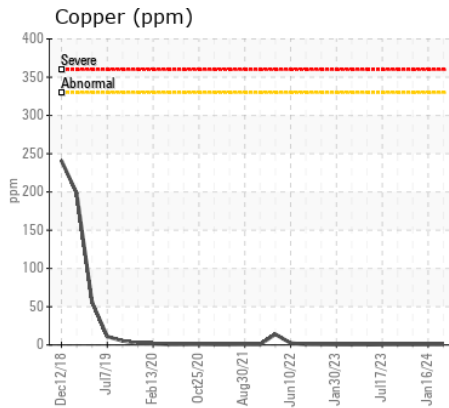
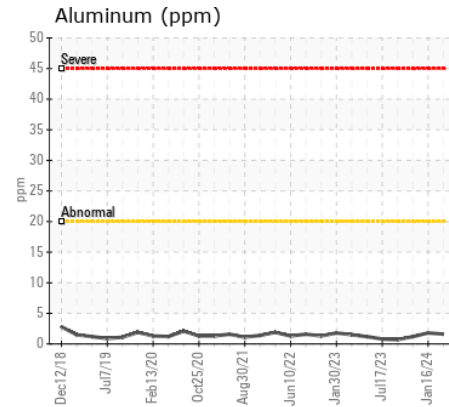
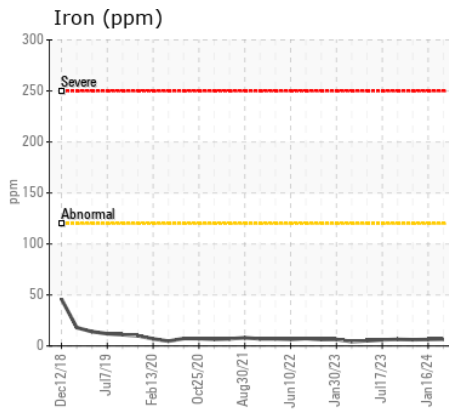
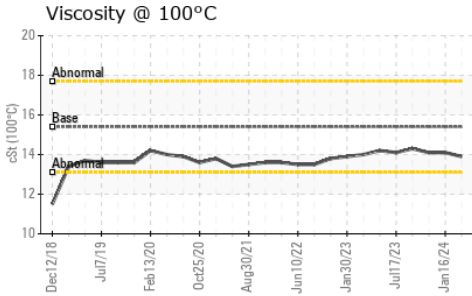
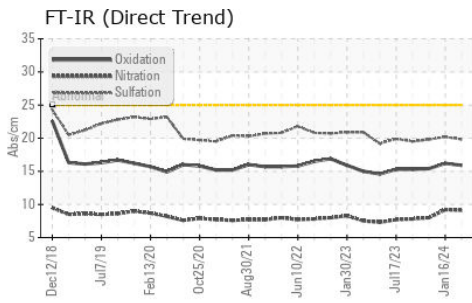
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	2	0
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*	>4	0.4	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.1	9.2	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	20.2	19.8
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)		2	2	3
Boron	ppm	ASTM D5185(m)	0	3	3	5
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	61	58	61
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	988	936	975
Calcium	ppm	ASTM D5185(m)	1070	1066	1055	1094
Phosphorus	ppm	ASTM D5185(m)	1150	1000	1001	1004
Zinc	ppm	ASTM D5185(m)	1270	1201	1144	1206
Sulfur	ppm	ASTM D5185(m)	2060	2500	2633	2537
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.9	16.2	15.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	14.1	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113280 **Received** : 15 Apr 2024
Lab Number : 02628749 **Tested** : 16 Apr 2024
Unique Number : 5761881 **Diagnosed** : 16 Apr 2024 - Wes Davis
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.