



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		GFL0113294	GFL0113280	GFL0097588
Sample Date		Client Info		23 May 2024	11 Apr 2024	16 Jan 2024
Machine Age	hrs	Client Info		0	16414	16414
Oil Age	hrs	Client Info		0	16414	592
Filter Age	hrs	Client Info		0	16414	592
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	8	7	6
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<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

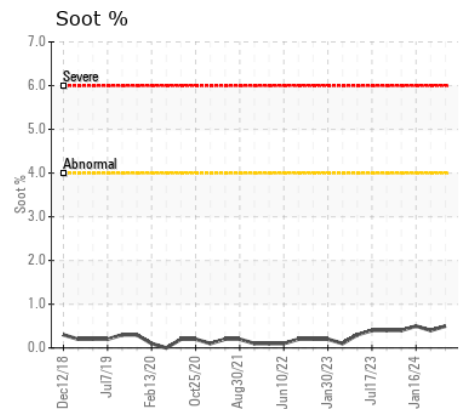
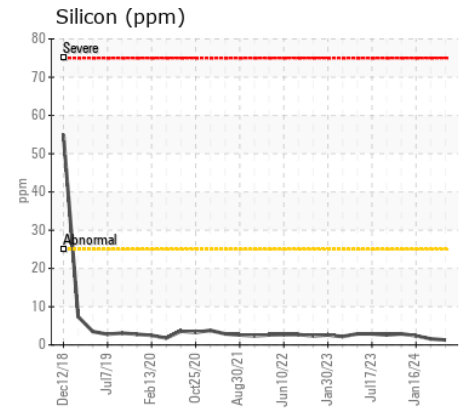
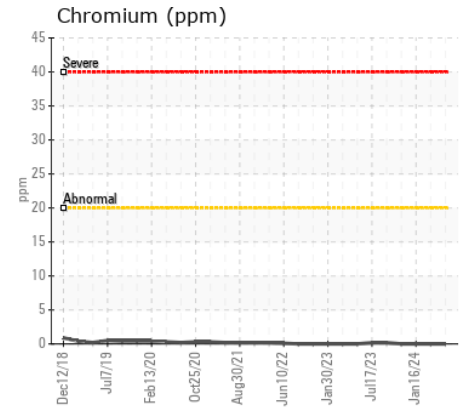
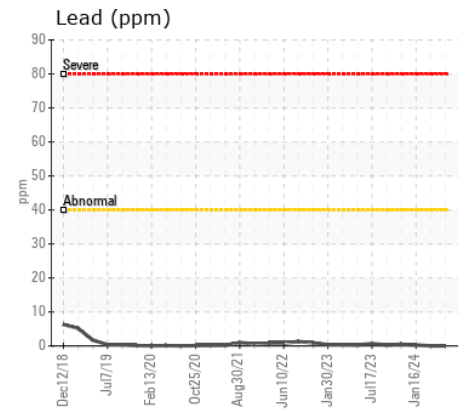
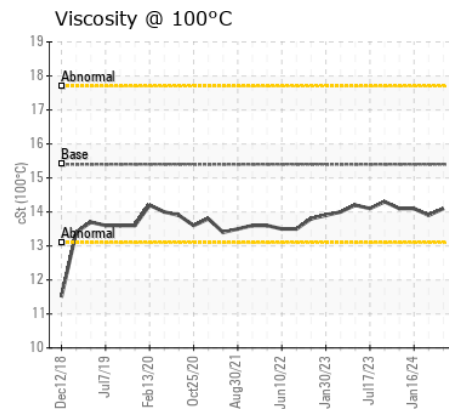
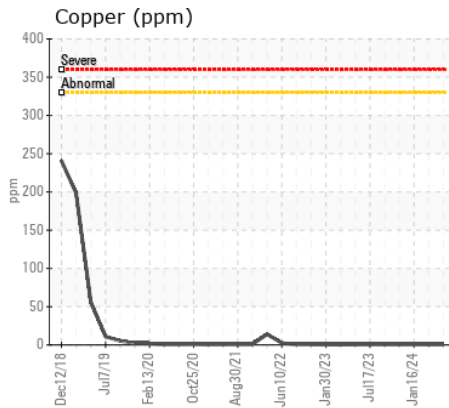
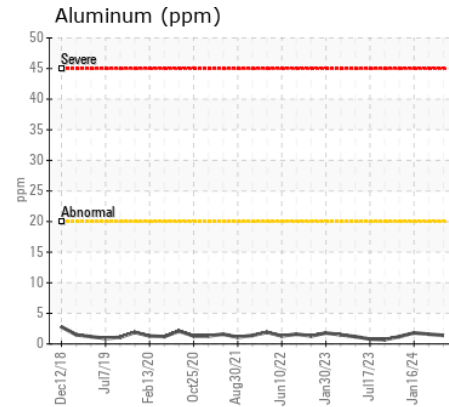
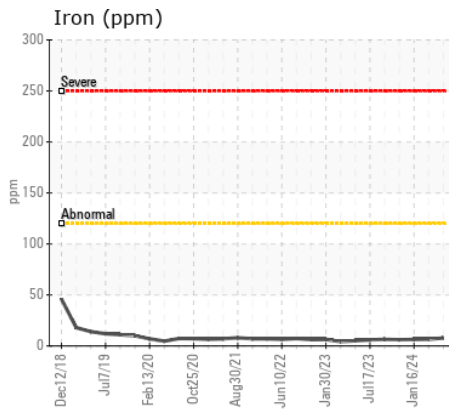
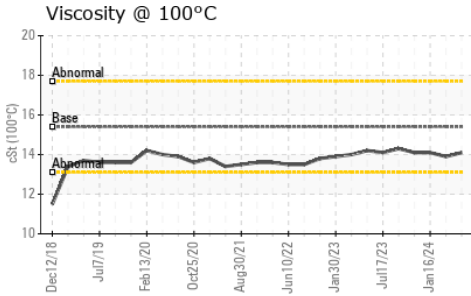
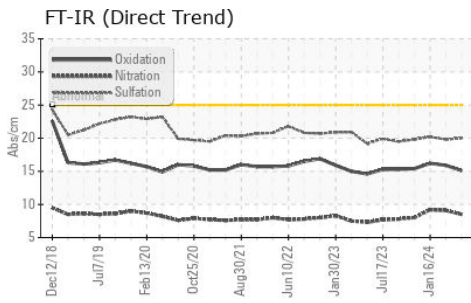
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
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	0.5	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	8.5	9.1	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	19.8	20.2
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	2
Boron	ppm	ASTM D5185(m)	0	4	3	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	61	61	58
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	990	988	936
Calcium	ppm	ASTM D5185(m)	1070	1064	1066	1055
Phosphorus	ppm	ASTM D5185(m)	1150	1000	1000	1001
Zinc	ppm	ASTM D5185(m)	1270	1197	1201	1144
Sulfur	ppm	ASTM D5185(m)	2060	2513	2500	2633
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.1	15.9	16.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	13.9	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113294
Lab Number : 02637419
Unique Number : 5786581
Test Package : MOB 1

Received : 24 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 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.