

Area
[1212472]
Machine Id
5673
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (40 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0110709	GFL0094515	GFL0082982
Sample Date		Client Info		19 Jan 2024	12 Oct 2023	21 Jul 2023
Machine Age	hrs	Client Info		18853	18259	17867
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>65	16	11	9
Chromium	ppm	ASTM D5185(m)	>5	2	<1	<1
Nickel	ppm	ASTM D5185(m)	>3	2	1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>35	6	4	3
Lead	ppm	ASTM D5185(m)	>10	<1	<1	0
Copper	ppm	ASTM D5185(m)	>180	12	4	5
Tin	ppm	ASTM D5185(m)	>8	1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

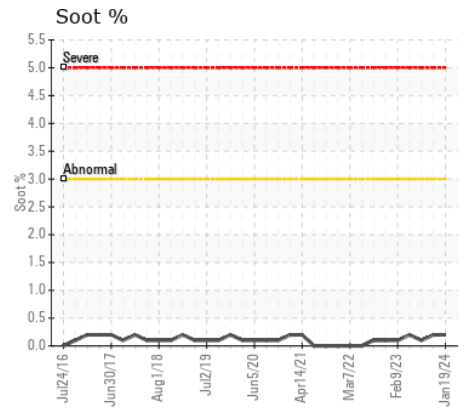
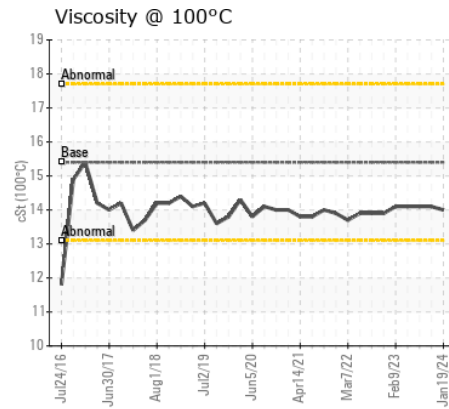
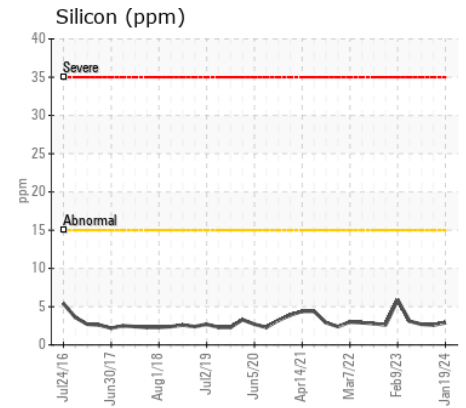
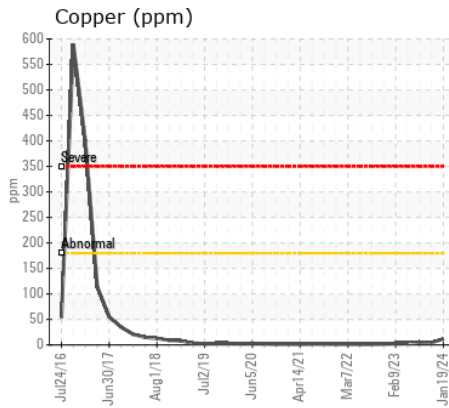
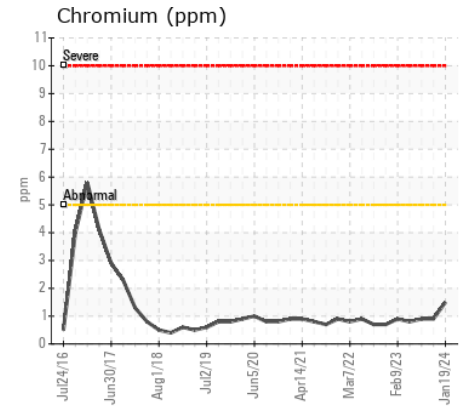
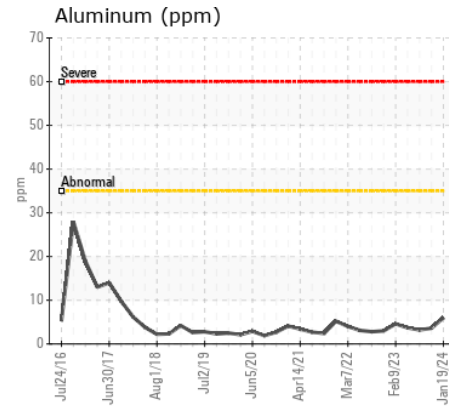
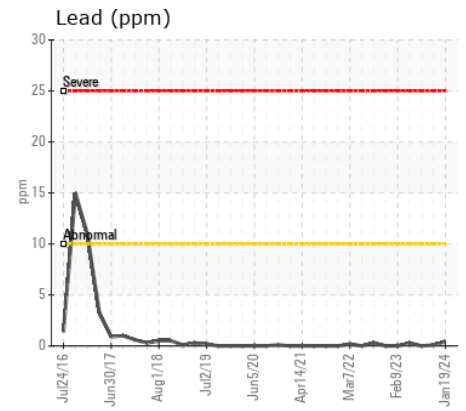
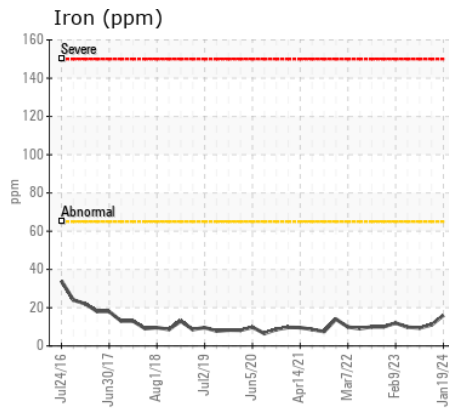
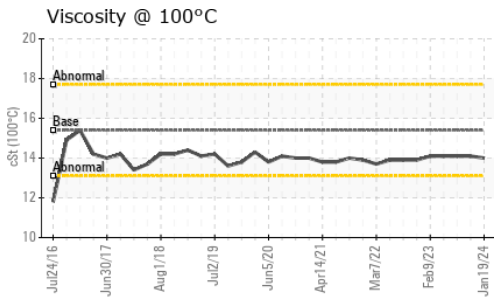
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1
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*	>3	0.2	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.3	7.8	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	19.5	19.6
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	1	2	3
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	59	61	61
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	990	986	1013
Calcium	ppm	ASTM D5185(m)	1070	1095	1086	1061
Phosphorus	ppm	ASTM D5185(m)	1150	989	990	1053
Zinc	ppm	ASTM D5185(m)	1270	1205	1215	1230
Sulfur	ppm	ASTM D5185(m)	2060	2421	2337	2410
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.3	15.8	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	14.1	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 207 - Pickering SW**
Sample No. : GFL0110709 **Received** : 23 Jan 2024 **1034 TOY AVENUE, PICKERING YARD**
Lab Number : 02610508 **Diagnosed** : 23 Jan 2024 **PICKERING, ON**
Unique Number : 5711594 **Diagnostician** : Wes Davis **CA L1W 3P1**
Test Package : MOB 1 **Contact: Ian Patton**

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.

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