



Machine Id
519003
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0107286	GFL0079200	GFL0057894
Sample Date		Client Info		06 Jan 2024	14 Aug 2023	05 Jan 2023
Machine Age	hrs	Client Info		4471	600	600
Oil Age	hrs	Client Info		600	600	600
Filter Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	11	13	11
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	3	6	15
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

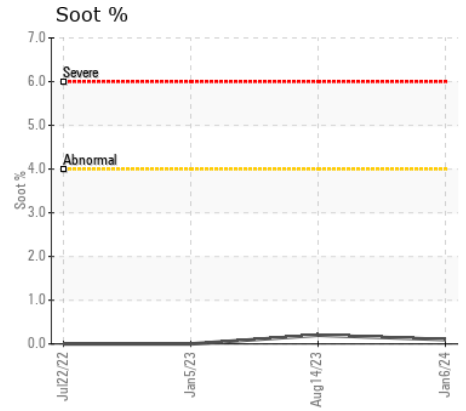
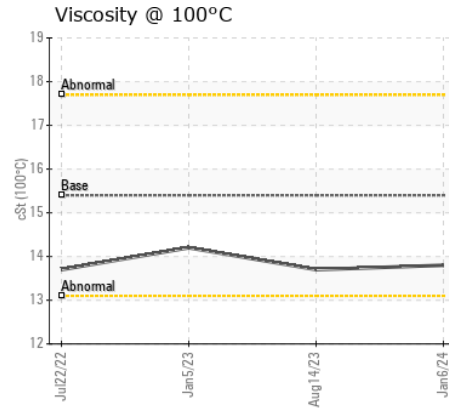
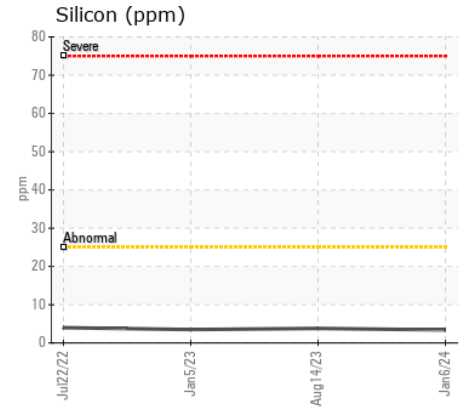
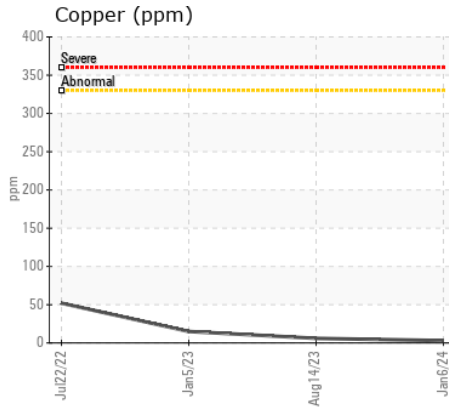
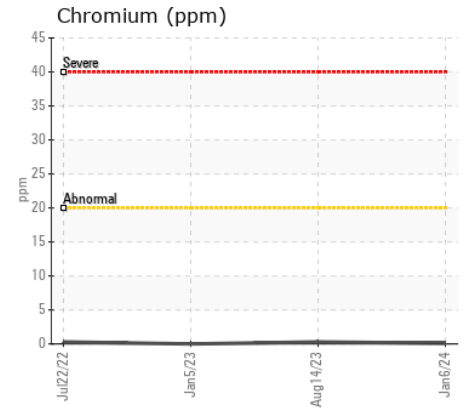
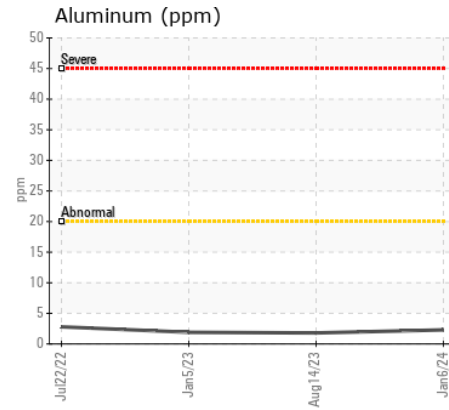
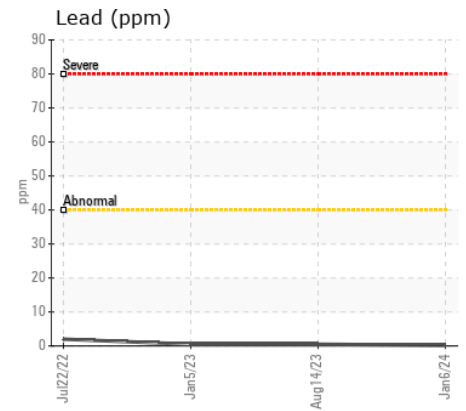
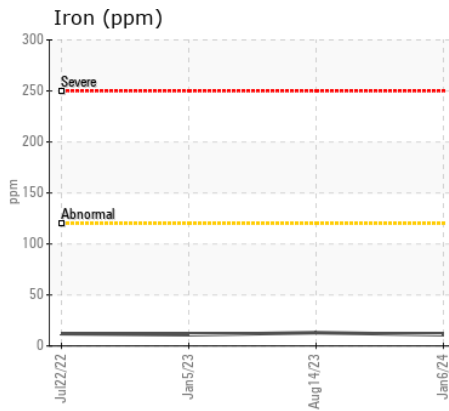
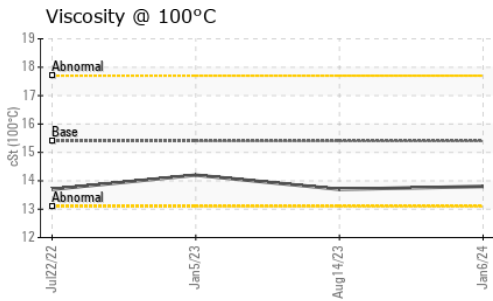
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	1	2	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	0.1	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	7.8	9.1	6.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	20.3	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	4	3
Boron	ppm	ASTM D5185(m)	0	3	4	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	62	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	952	1001	964
Calcium	ppm	ASTM D5185(m)	1070	1050	1086	1084
Phosphorus	ppm	ASTM D5185(m)	1150	996	1084	1077
Zinc	ppm	ASTM D5185(m)	1270	1165	1229	1169
Sulfur	ppm	ASTM D5185(m)	2060	2643	2478	2658
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	16.7	15.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	13.7	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 250 - Sault Ste Marie Hauling + MRF
Sample No. : GFL0107286 **Received** : 09 Jan 2024 86 Sackville Rd,
Lab Number : 02607356 **Diagnosed** : 09 Jan 2024 Sault Ste. Marie, ON
Unique Number : 5708442 **Diagnostician** : Wes Davis CA P6B 4T6
Test Package : MOB 1

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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