



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
426104
 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		GFL0099510	GFL0099522	GFL0068043
Sample Date		Client Info		28 May 2024	05 Dec 2023	06 Jun 2023
Machine Age	hrs	Client Info		13844	13540	12982
Oil Age	hrs	Client Info		304	558	432
Filter Age	hrs	Client Info		304	558	432
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)	>110	11	23	53
Chromium	ppm	ASTM D5185(m)	>4	<1	1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	2	4	9
Lead	ppm	ASTM D5185(m)	>45	0	<1	0
Copper	ppm	ASTM D5185(m)	>85	<1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

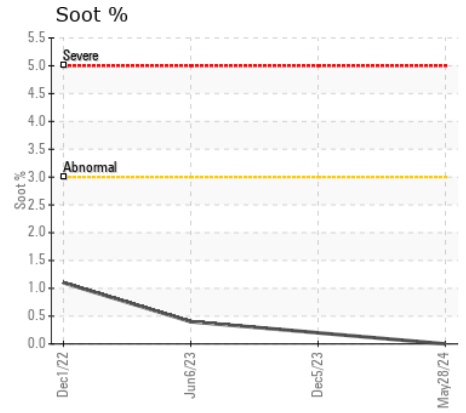
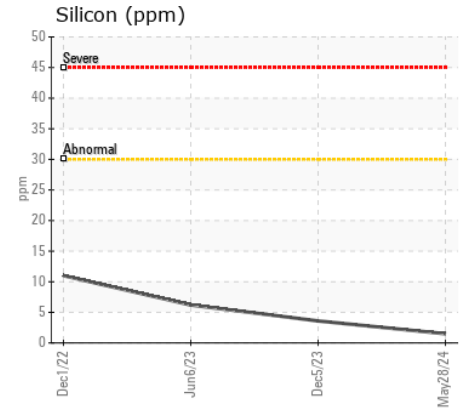
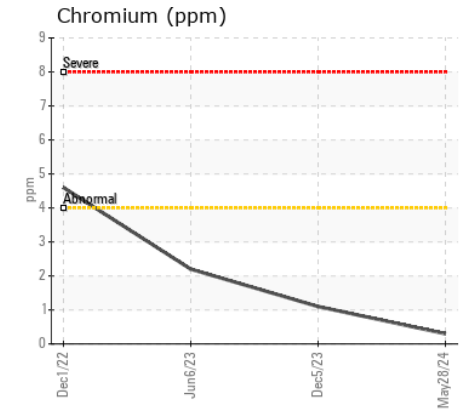
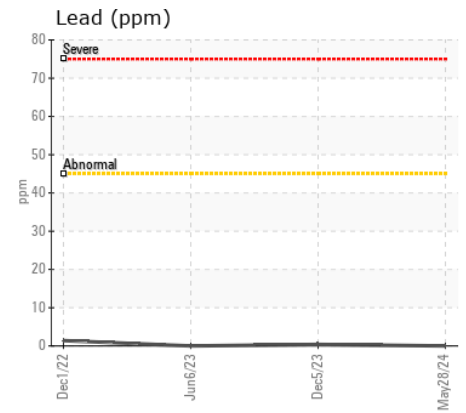
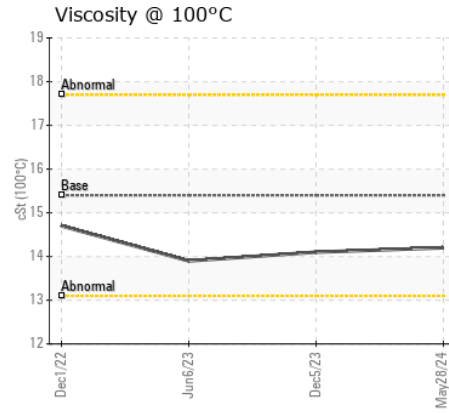
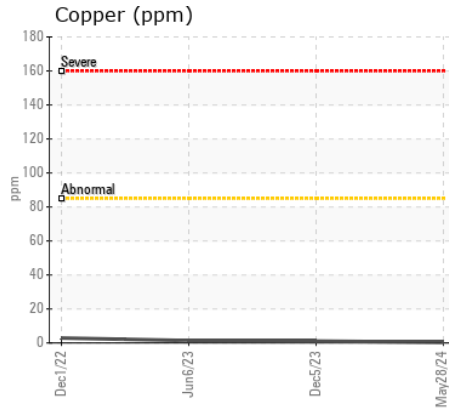
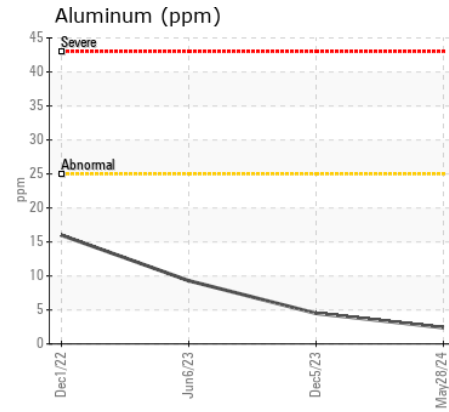
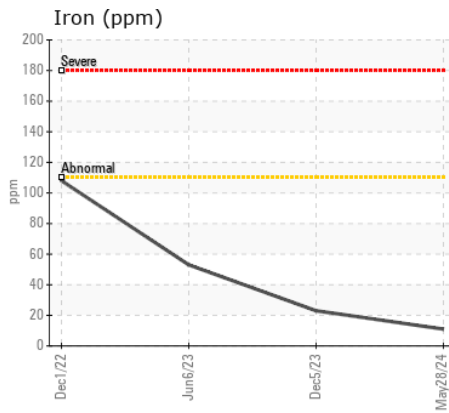
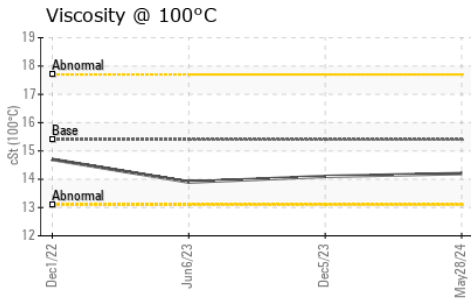
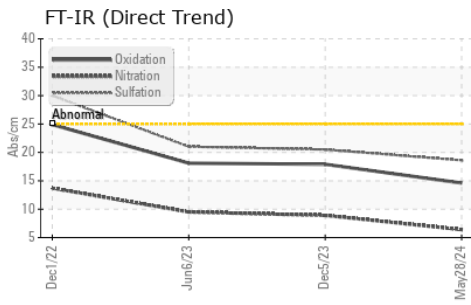
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	4	6
Potassium	ppm	ASTM D5185(m)	>20	4	21	63
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	0	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.4	8.9	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	20.5	21.0
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)		3	8	13
Boron	ppm	ASTM D5185(m)	0	5	4	4
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	59	62	59
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	956	990	856
Calcium	ppm	ASTM D5185(m)	1070	1032	1072	1182
Phosphorus	ppm	ASTM D5185(m)	1150	985	988	1039
Zinc	ppm	ASTM D5185(m)	1270	1160	1220	1177
Sulfur	ppm	ASTM D5185(m)	2060	2520	2505	2547
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	17.9	18.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	14.1	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0099510 **Received** : 12 Jun 2024
Lab Number : 02641380 **Tested** : 12 Jun 2024
Unique Number : 5798919 **Diagnosed** : 12 Jun 2024 - Wes Davis
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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