



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
401186
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		GFL0113285	GFL0111716	GFL0097539
Sample Date		Client Info		11 Apr 2024	12 Mar 2024	22 Dec 2023
Machine Age	kms	Client Info		804359	9427	35591
Oil Age	kms	Client Info		0	0	636
Filter Age	kms	Client Info		0	0	636
Oil Changed		Client Info		Changed	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	3	10	4
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>15	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	2	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

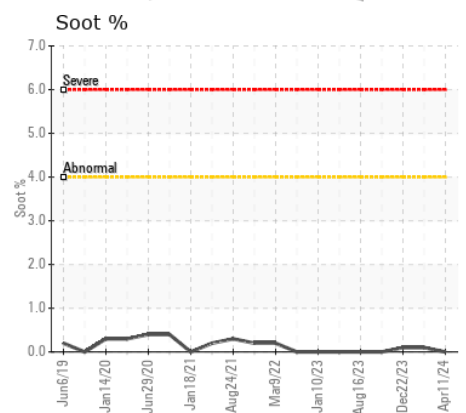
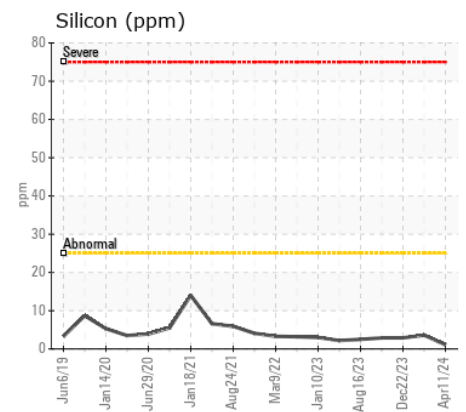
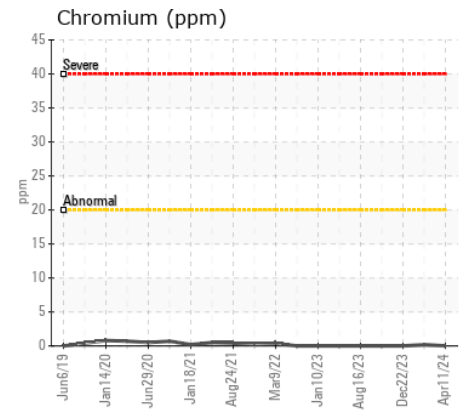
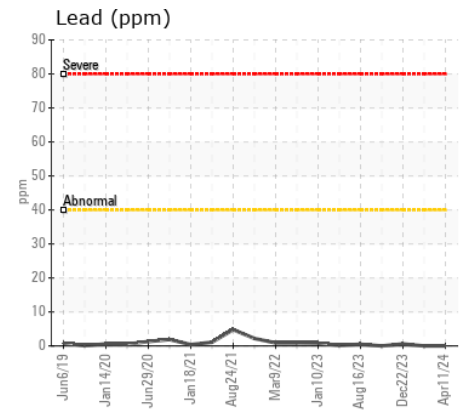
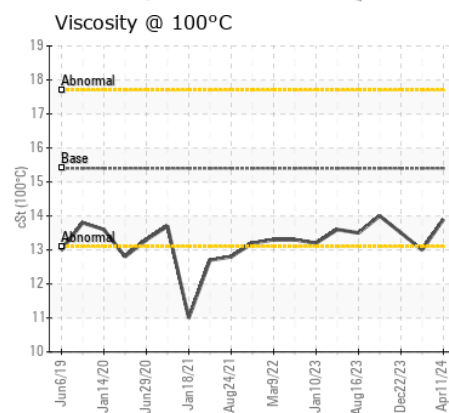
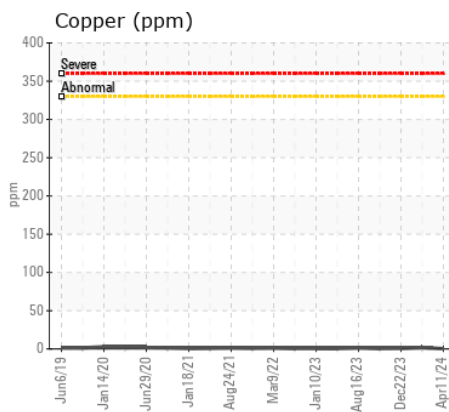
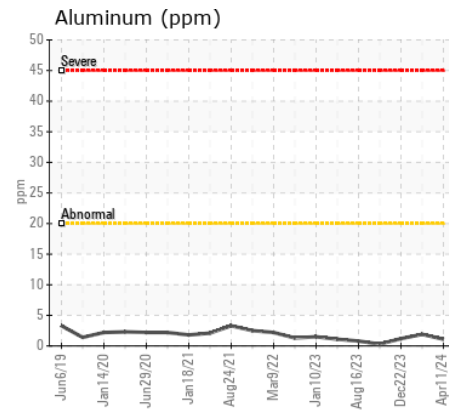
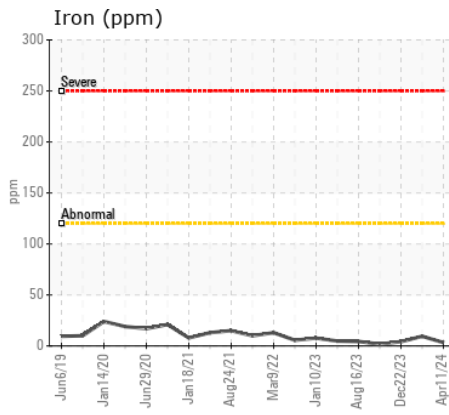
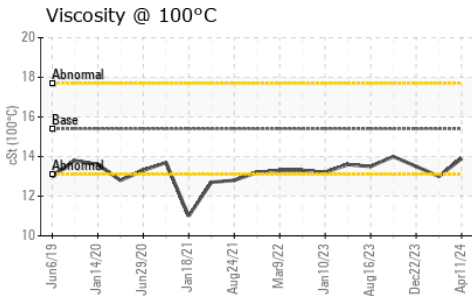
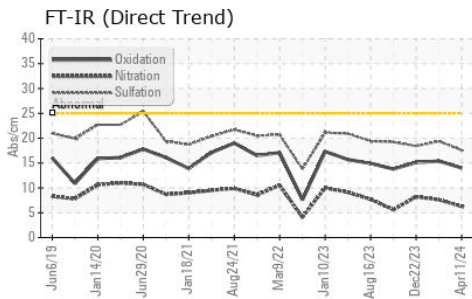
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	3	1
Fuel		WC Method	>3.0	<1.0	2.7	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	6.3	7.6	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	19.4	18.4
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	6	2
Boron	ppm	ASTM D5185(m)	0	5	3	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	57	59
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	961	947	954
Calcium	ppm	ASTM D5185(m)	1070	1047	1045	1056
Phosphorus	ppm	ASTM D5185(m)	1150	992	977	1006
Zinc	ppm	ASTM D5185(m)	1270	1165	1156	1169
Sulfur	ppm	ASTM D5185(m)	2060	2547	2464	2716
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	15.4	15.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	13.0	13.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113285 **Received** : 15 Apr 2024
Lab Number : 02628746 **Tested** : 16 Apr 2024
Unique Number : 5761878 **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.