



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[1286143]

Machine Id

515000

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		GFL0118524	GFL0110662	GFL0094497
Sample Date		Client Info		30 May 2024	01 Mar 2024	11 Oct 2023
Machine Age	hrs	Client Info		0	0	8732
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)	>165	9	12	14
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	2	2
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>150	<1	1	2
Copper	ppm	ASTM D5185(m)	>90	<1	2	6
Tin	ppm	ASTM D5185(m)	>5	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

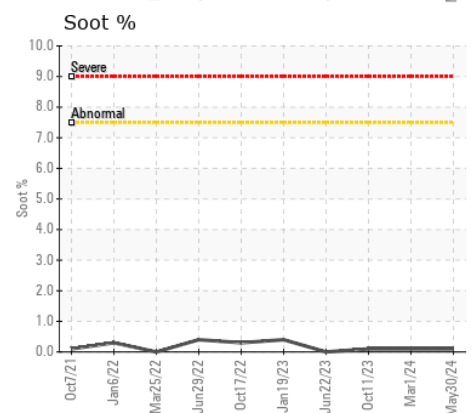
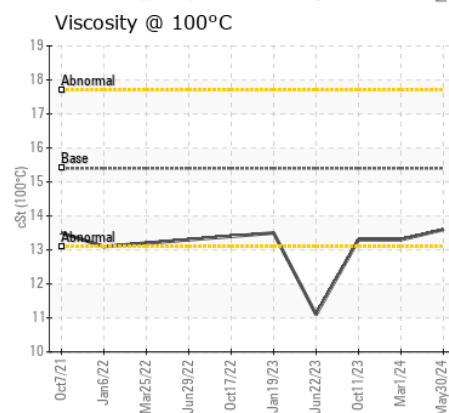
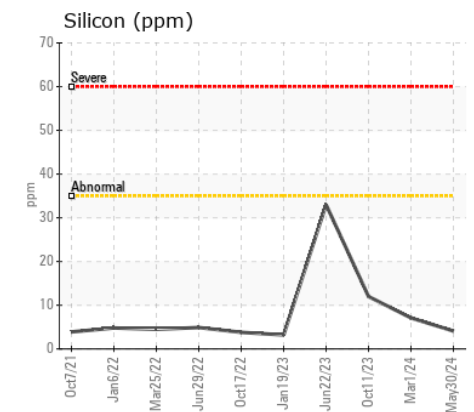
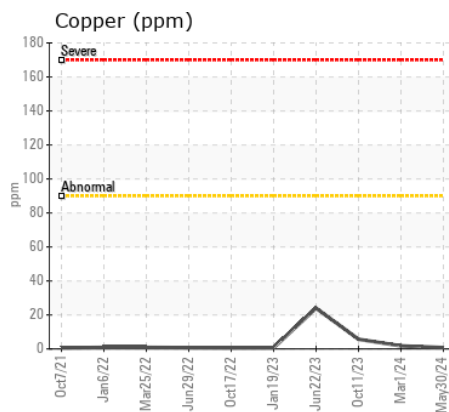
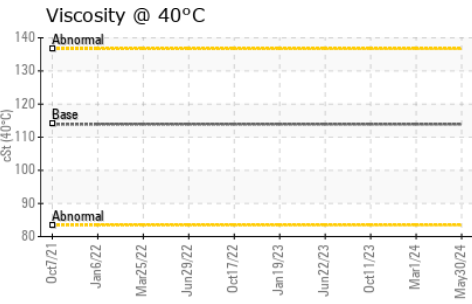
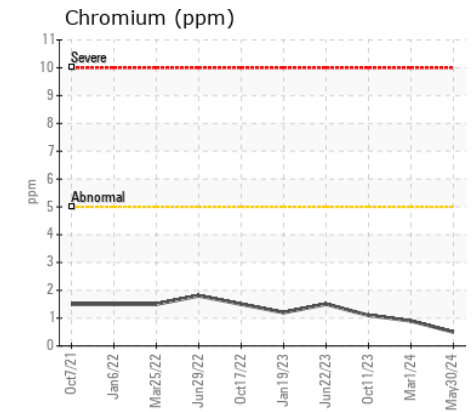
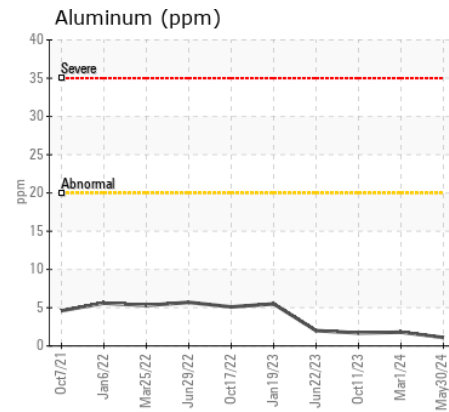
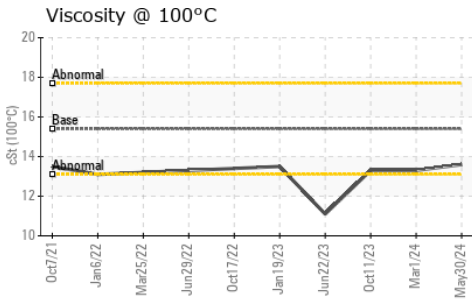
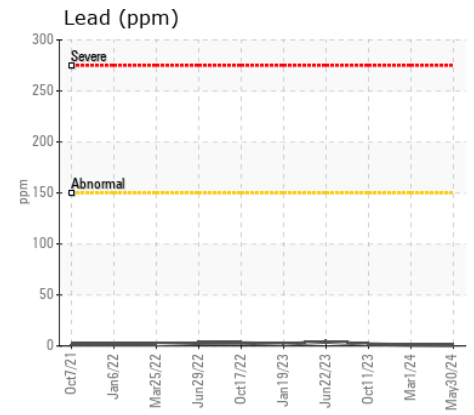
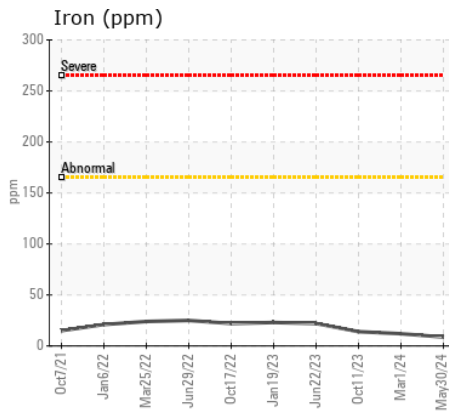
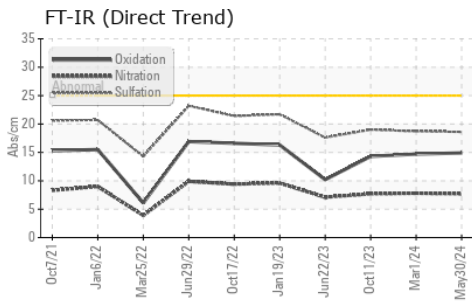
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	4	7	12
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*	>7.5	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.7	7.8	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	18.7	19.0
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)		4	4	6
Boron	ppm	ASTM D5185(m)	0	3	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	2
Molybdenum	ppm	ASTM D5185(m)	60	60	59	56
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	974	969	893
Calcium	ppm	ASTM D5185(m)	1070	1067	1117	1205
Phosphorus	ppm	ASTM D5185(m)	1150	991	1018	971
Zinc	ppm	ASTM D5185(m)	1270	1182	1209	1184
Sulfur	ppm	ASTM D5185(m)	2060	2505	2726	2516
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9	14.7	14.3
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	97.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	13.3	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	142	139	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118524  
**Lab Number** : 02639325  
**Unique Number** : 5788487  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**GFL Environmental - 207 - Pickering SW**  
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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.