



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[1285704]**  
 Machine Id  
**828010**  
 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		<b>GFL0093973</b>	GFL0093950	GFL0093942
Sample Date		Client Info		<b>30 May 2024</b>	27 Feb 2024	04 Dec 2023
Machine Age	hrs	Client Info		<b>12237</b>	11657	11175
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	MARGINAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>18</b>	17	15
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>4</b>	3	3
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>150	<b>1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

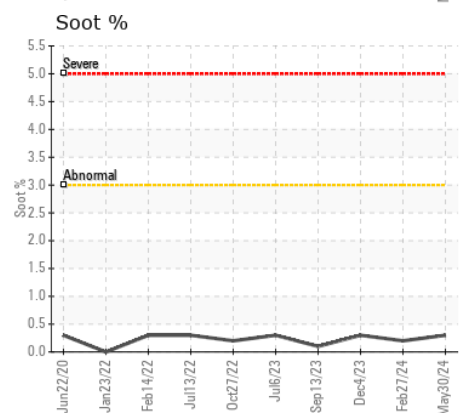
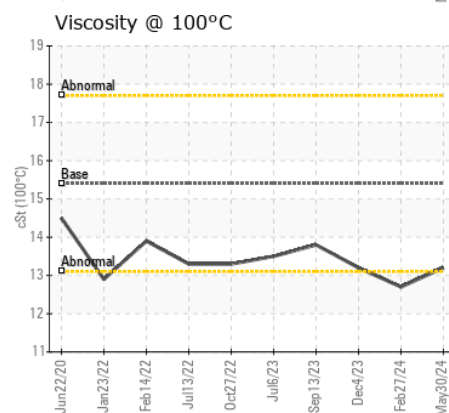
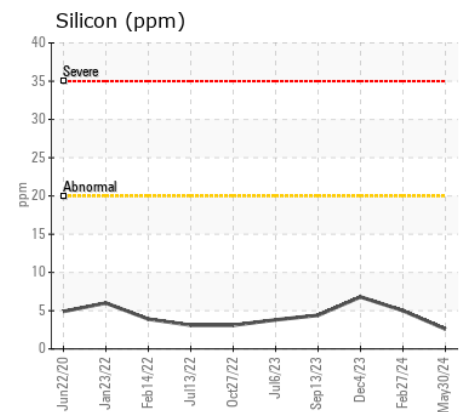
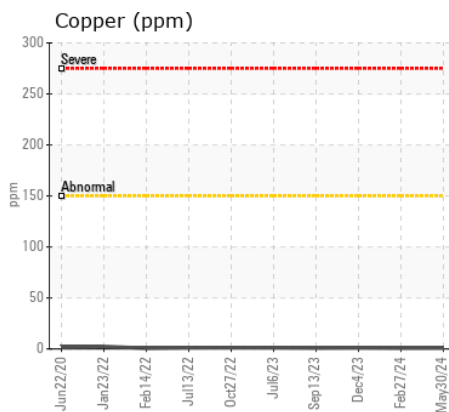
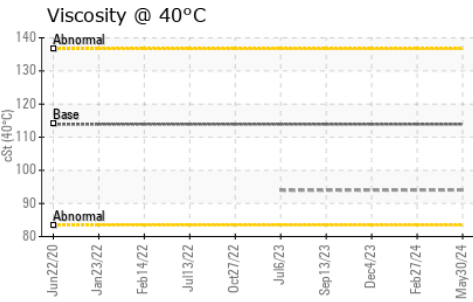
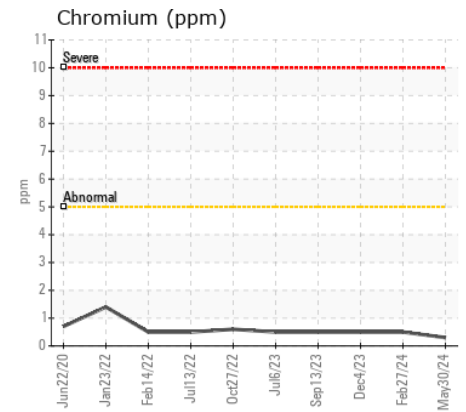
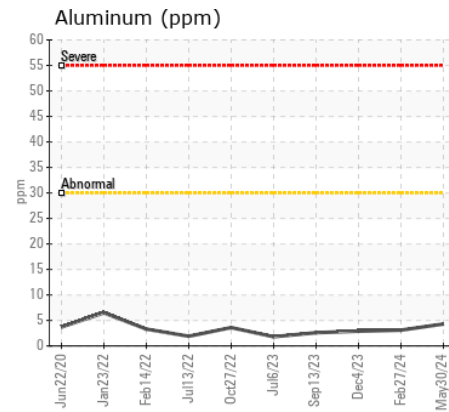
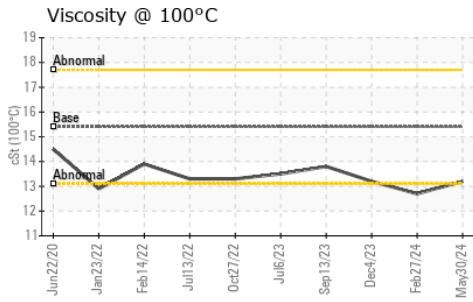
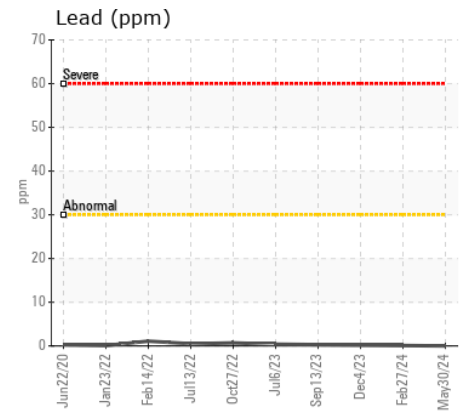
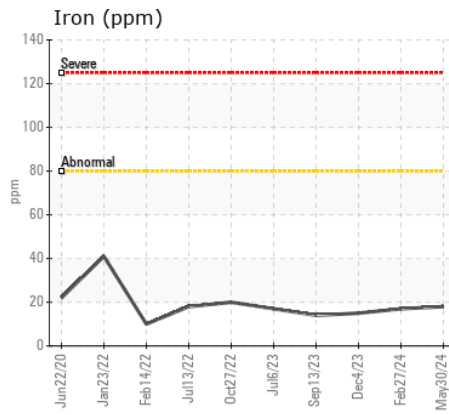
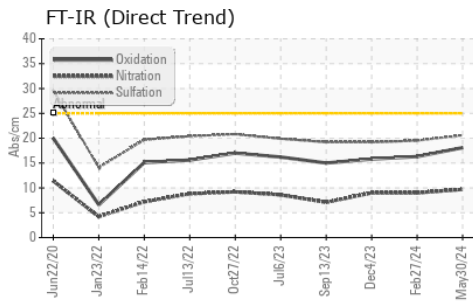
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	5	7
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	2	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 3.5	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	9.0	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.6</b>	19.5	19.2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>7</b>	6	7
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	6	5
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	55	57
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>917</b>	869	903
Calcium	ppm	ASTM D5185(m)	1070	<b>1028</b>	1065	1098
Phosphorus	ppm	ASTM D5185(m)	1150	<b>922</b>	924	920
Zinc	ppm	ASTM D5185(m)	1270	<b>1123</b>	1101	1139
Sulfur	ppm	ASTM D5185(m)	2060	<b>2290</b>	2465	2370
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.1</b>	16.3	15.8
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	<b>94.1</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.2</b>	12.7	13.2
Viscosity Index (VI)	Scale	ASTM D2270*	142	<b>139</b>	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0093973  
**Lab Number** : 02639320  
**Unique Number** : 5788482  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**Received** : 03 Jun 2024  
**Tested** : 03 Jun 2024  
**Diagnosed** : 03 Jun 2024 - Wes Davis

**GFL Environmental - 777 - Belleville-Municipal waste**  
 197 Putman Industrial Road  
 Belleville, ON  
 CA K8N 4Z6  
 Contact: Ian Patton  
 ipatton@gflenv.com  
 T: (905)831-6297  
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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.