



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

Machine Id  
**423048**  
 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>GFL0099499</b>	GFL0099514	GFL0068057
Sample Date		Client Info		<b>22 May 2024</b>	13 Dec 2023	12 Oct 2023
Machine Age	hrs	Client Info		<b>20720</b>	20136	19877
Oil Age	hrs	Client Info		<b>584</b>	259	592
Filter Age	hrs	Client Info		<b>584</b>	259	592
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	<b>42</b>	15	31
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>9</b>	5	7
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

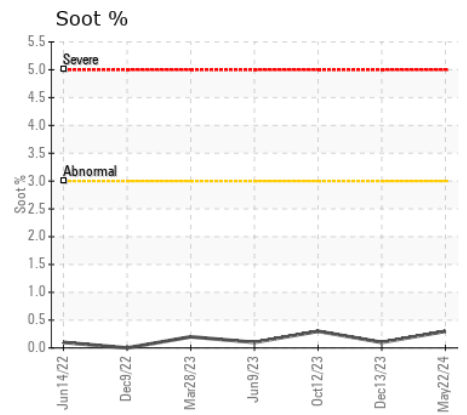
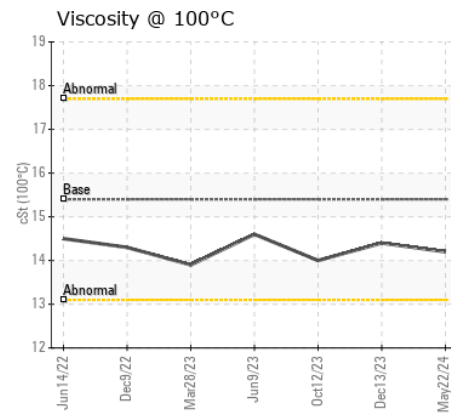
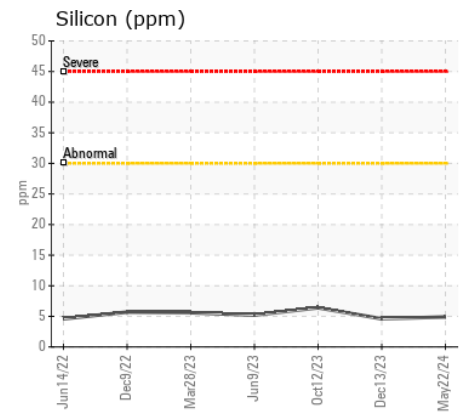
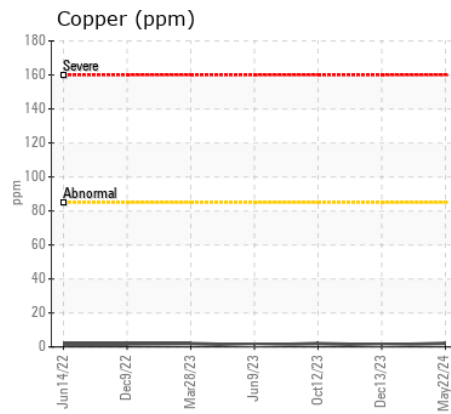
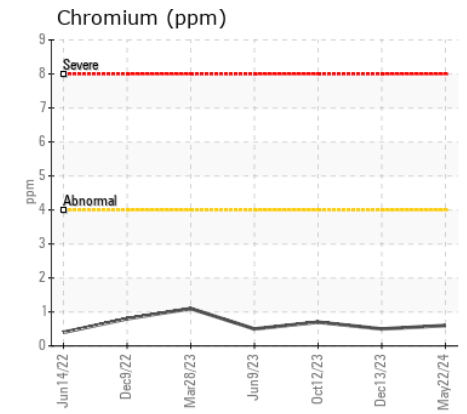
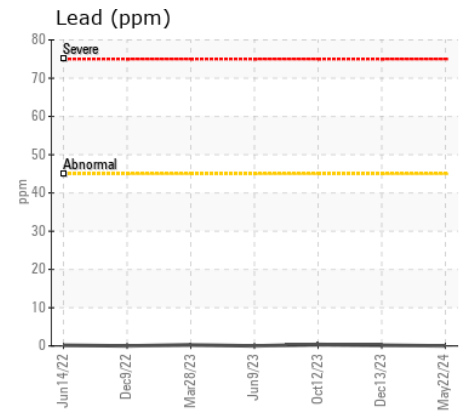
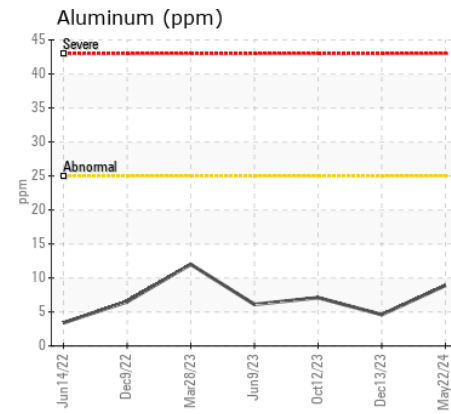
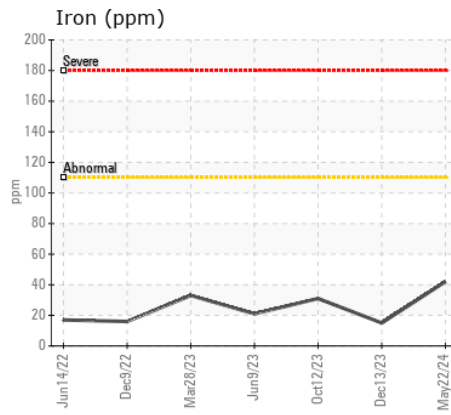
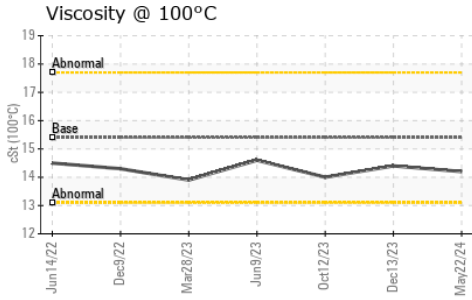
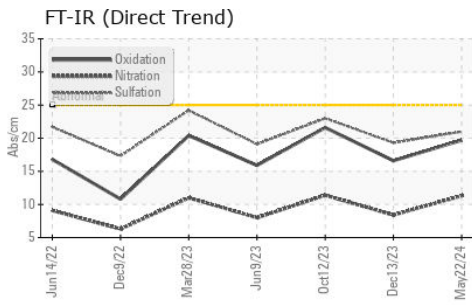
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>5</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	2	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<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>	0.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.3</b>	8.4	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.0</b>	19.3	23.0
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>2</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	4	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	59	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>959</b>	976	990
Calcium	ppm	ASTM D5185(m)	1070	<b>1052</b>	1041	1062
Phosphorus	ppm	ASTM D5185(m)	1150	<b>996</b>	1019	1014
Zinc	ppm	ASTM D5185(m)	1270	<b>1190</b>	1182	1204
Sulfur	ppm	ASTM D5185(m)	2060	<b>2468</b>	2725	2479
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.7</b>	16.6	21.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	14.4	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0099499 **Received** : 12 Jun 2024  
**Lab Number** : 02641382 **Tested** : 12 Jun 2024  
**Unique Number** : 5798921 **Diagnosed** : 12 Jun 2024 - Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 522**  
 175 MacAlpine Crescent  
 Fort McMurray, AB  
 CA T9H 4A5  
 Contact: Brad Poole  
 bradley.poole@gflenv.com

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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F: