



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

Machine Id  
**425071**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112003</b>	GFL0090394	GFL0071474
Sample Date		Client Info		<b>27 Jun 2024</b>	21 Dec 2023	28 Sep 2023
Machine Age	kms	Client Info		<b>572896</b>	539306	539306
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>41</b>	23	28
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
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)	>20	<b>17</b>	11	9
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	2	4
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

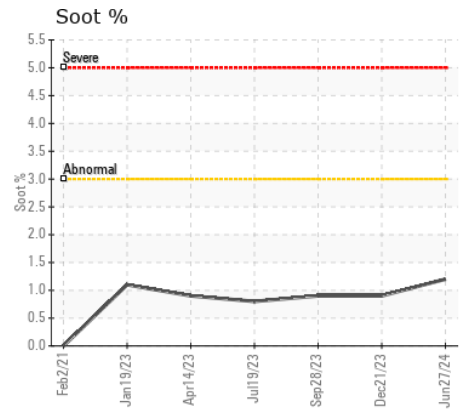
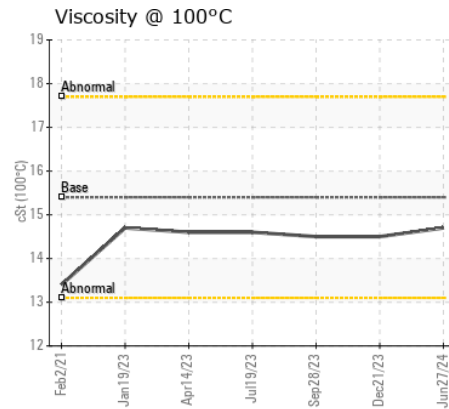
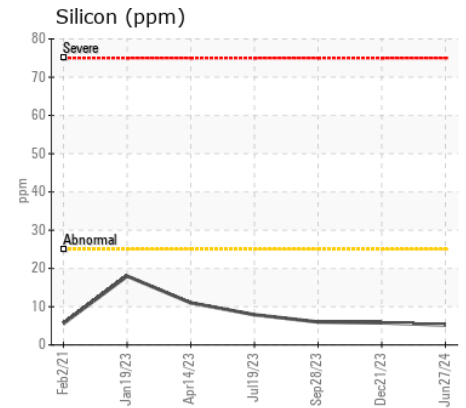
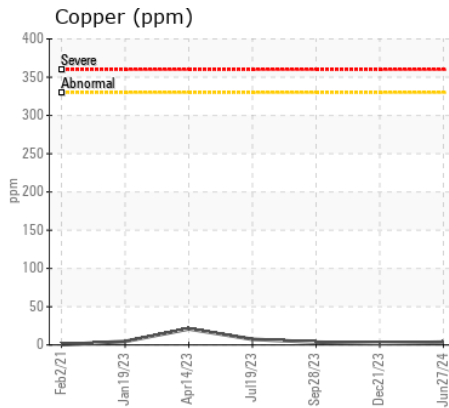
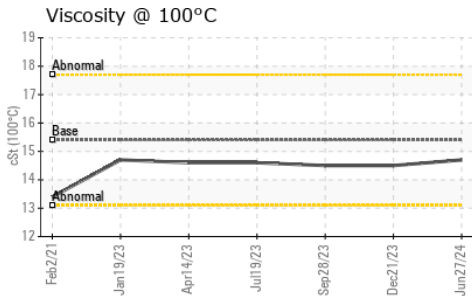
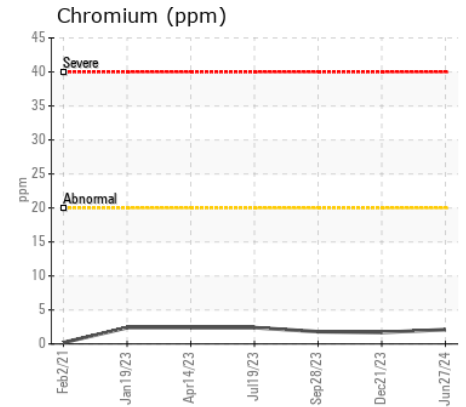
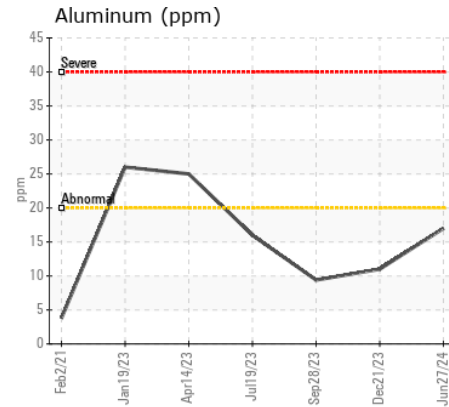
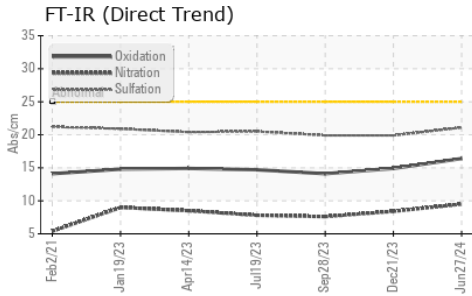
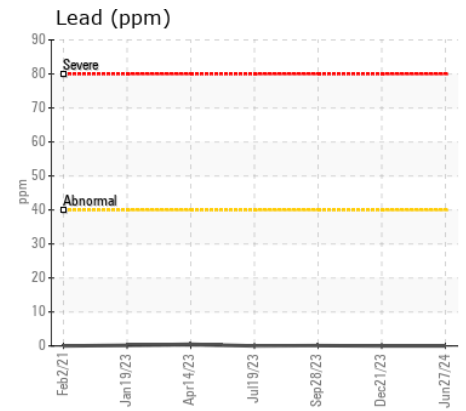
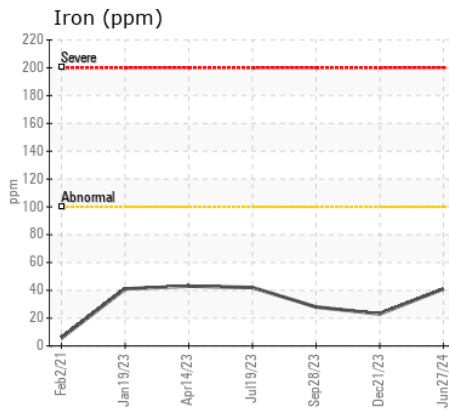
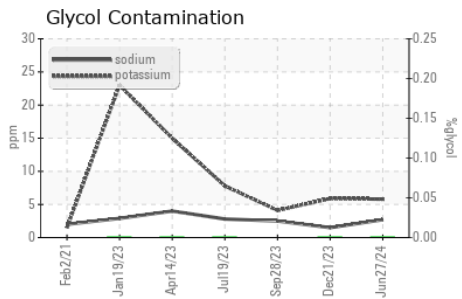
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	6	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG
Soot %	%	ASTM D7844*	>3	<b>1.2</b>	0.9	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.5</b>	8.4	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.1</b>	19.9	19.9
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>3</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>1</b>	1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	59	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>987</b>	975	983
Calcium	ppm	ASTM D5185(m)	1070	<b>1073</b>	1068	1069
Phosphorus	ppm	ASTM D5185(m)	1150	<b>987</b>	1006	982
Zinc	ppm	ASTM D5185(m)	1270	<b>1217</b>	1192	1220
Sulfur	ppm	ASTM D5185(m)	2060	<b>2421</b>	2628	2469
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.4</b>	14.9	14.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.7</b>	14.5	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112003 **Received** : 04 Jul 2024  
**Lab Number** : 02645391 **Tested** : 04 Jul 2024  
**Unique Number** : 5802930 **Diagnosed** : 04 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**GFL Environmental - 216M**  
 2475 Beryl Drive  
 Oakville, ON  
 CA L6J 7X4  
 Contact: Matthew Guinness  
 mgunness@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.