

Machine Id  
**520007**  
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>GFL0125417</b>	GFL0116097	GFL0104020
Sample Date		Client Info		<b>07 Jun 2024</b>	19 Mar 2024	12 Dec 2023
Machine Age	kms	Client Info		<b>1201045</b>	1190235	1177331
Oil Age	kms	Client Info		<b>7600</b>	4500	1900
Filter Age	kms	Client Info		<b>7600</b>	4500	1900
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)	>80	<b>4</b>	5	7
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<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>1</b>	1	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>2</b>	4	2
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

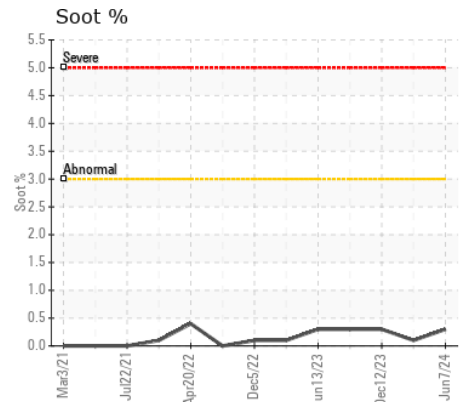
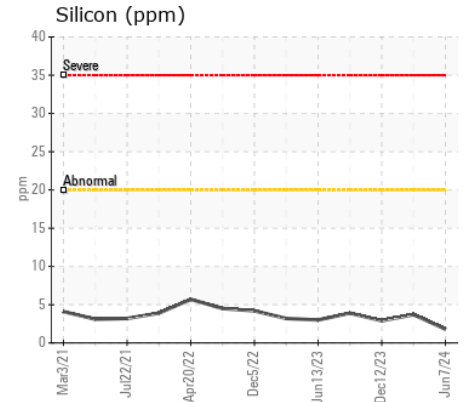
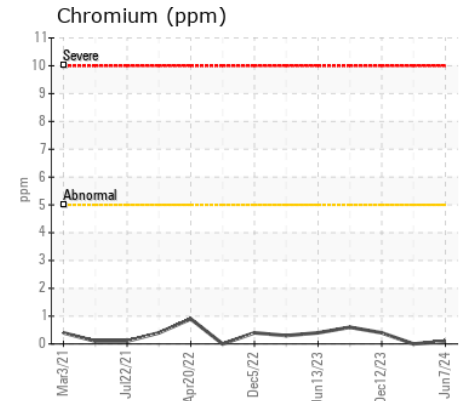
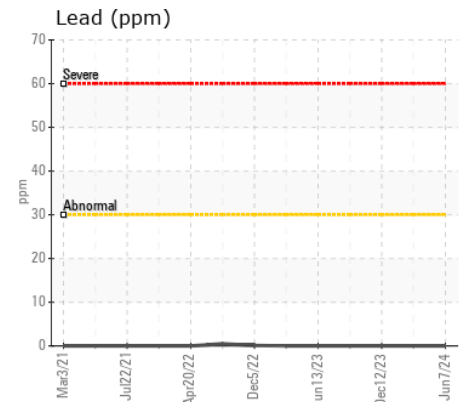
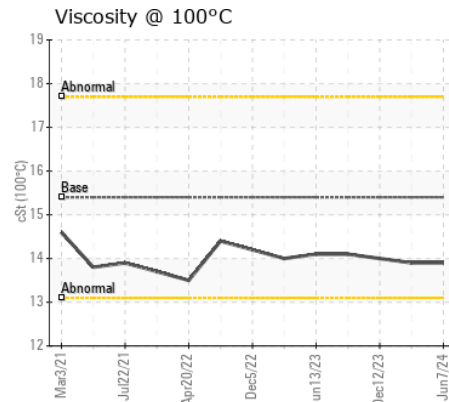
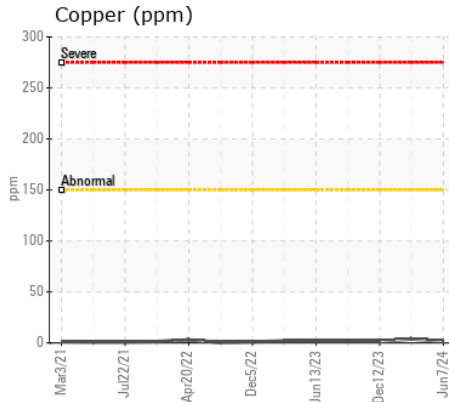
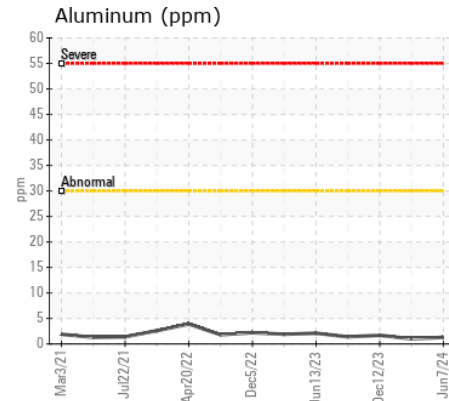
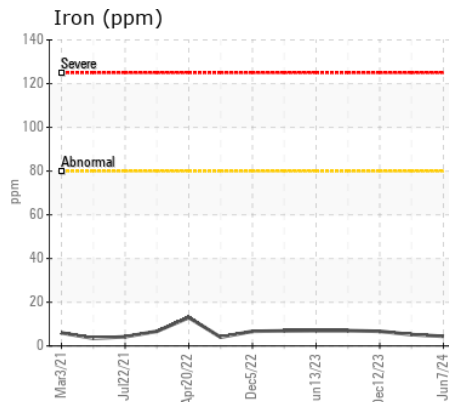
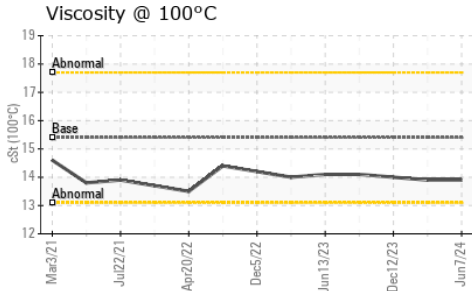
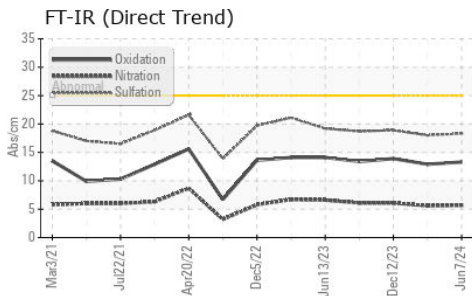
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>2</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	0
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>5.7</b>	5.6	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.3</b>	18.0	18.9
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>	8	2
Boron	ppm	ASTM D5185(m)	0	<b>19</b>	43	10
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	64	61
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>917</b>	812	951
Calcium	ppm	ASTM D5185(m)	1070	<b>1105</b>	1194	1065
Phosphorus	ppm	ASTM D5185(m)	1150	<b>972</b>	969	970
Zinc	ppm	ASTM D5185(m)	1270	<b>1134</b>	1137	1172
Sulfur	ppm	ASTM D5185(m)	2060	<b>2537</b>	2562	2544
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.3</b>	12.9	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	13.9	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0125417  
**Lab Number** : 02640639  
**Unique Number** : 5789801  
**Test Package** : MOB 1  
**Received** : 10 Jun 2024  
**Tested** : 10 Jun 2024  
**Diagnosed** : 10 Jun 2024 - Wes Davis

**GFL Environmental - 257 - North York**  
 124 Arrow Road  
 North York, ON  
 CA M9M 1M6  
 Contact: Jasvir Bains  
 jbains@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: