



Machine Id  
**519003**  
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>GFL0107317</b>	GFL0107305	GFL0107286
Sample Date		Client Info		<b>03 May 2024</b>	13 Mar 2024	06 Jan 2024
Machine Age	kms	Client Info		<b>5494</b>	233070	4471
Oil Age	kms	Client Info		<b>600</b>	0	600
Filter Age	kms	Client Info		<b>600</b>	0	600
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

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>120	<b>10</b>	13	11
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	4	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

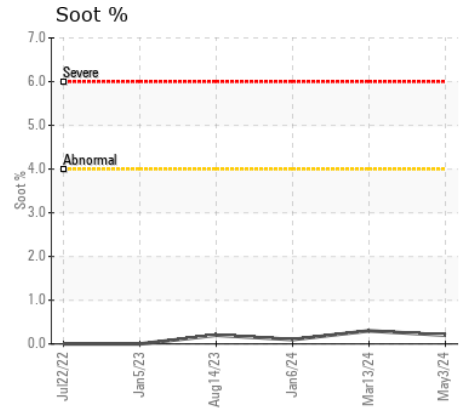
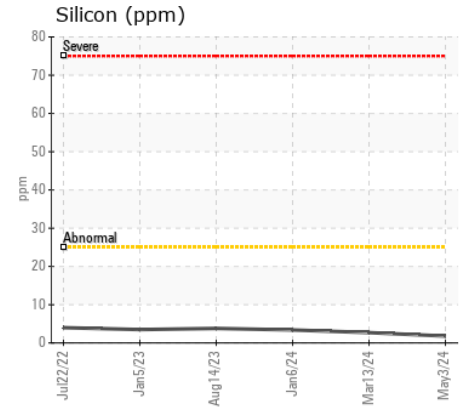
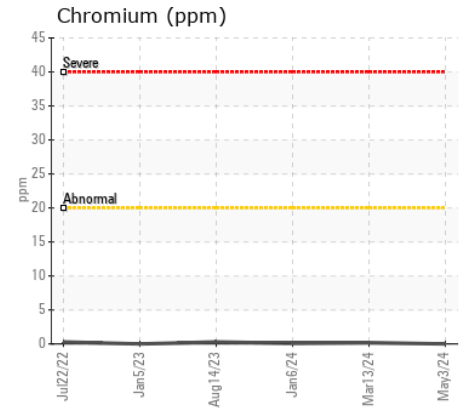
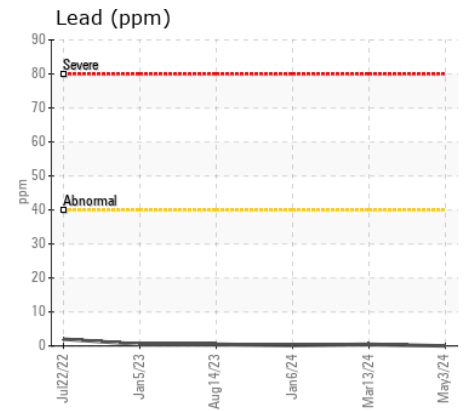
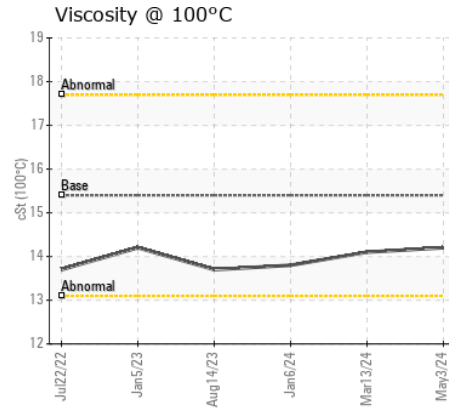
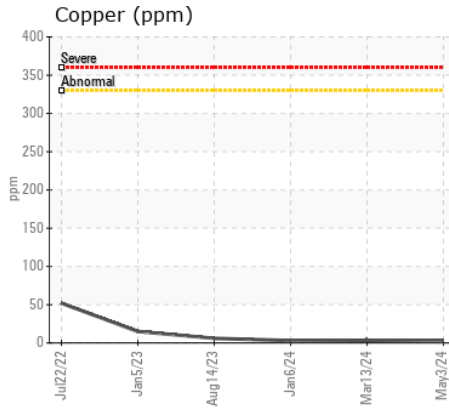
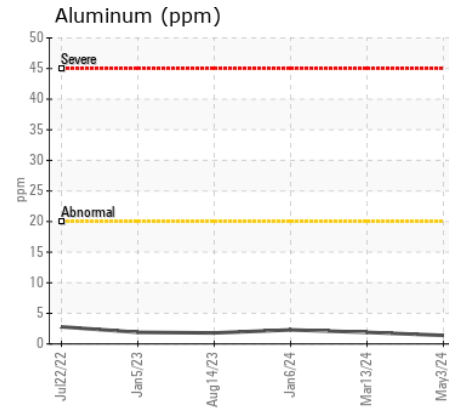
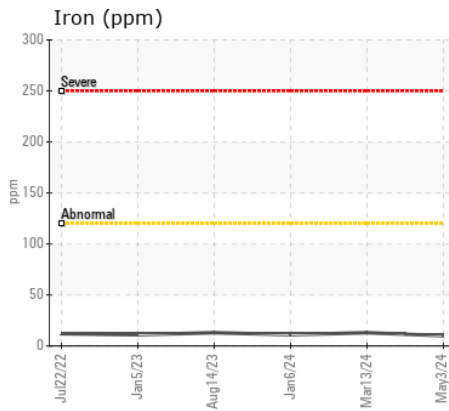
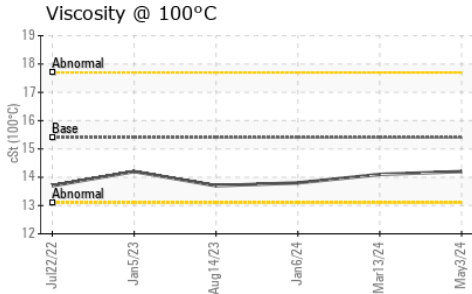
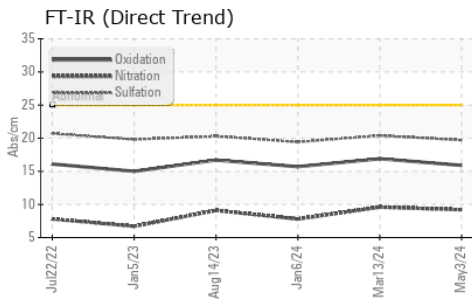
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
Fuel		WC Method	>3.0	<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*	>4	<b>0.2</b>	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	9.6	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.7</b>	20.4	19.4
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>2</b>	1	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>64</b>	63	59
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>1020</b>	1006	952
Calcium	ppm	ASTM D5185(m)	1070	<b>1111</b>	1100	1050
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1025</b>	1042	996
Zinc	ppm	ASTM D5185(m)	1270	<b>1248</b>	1219	1165
Sulfur	ppm	ASTM D5185(m)	2060	<b>2502</b>	2602	2643
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.9</b>	16.9	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	14.1	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107317  
**Lab Number** : 02634928  
**Unique Number** : 5776081  
**Test Package** : MOB 1

**Received** : 13 May 2024  
**Tested** : 13 May 2024  
**Diagnosed** : 13 May 2024 - Wes Davis  
**GFL Environmental - 250 - Sault Ste Marie Hauling + MRF**  
 86 Sackville Rd,  
 Sault Ste. Marie, ON  
 CA P6B 4T6  
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 F: (705)945-7857

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.