



Machine Id  
**701037**  
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>GFL0097446</b>	GFL0085657	GFL0077300
Sample Date		Client Info		<b>03 Jan 2024</b>	31 Oct 2023	03 Aug 2023
Machine Age	hrs	Client Info		<b>444</b>	444	444
Oil Age	hrs	Client Info		<b>444</b>	444	444
Filter Age	hrs	Client Info		<b>444</b>	444	444
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)	>80	<b>9</b>	11	8
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<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>	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	1	1
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;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

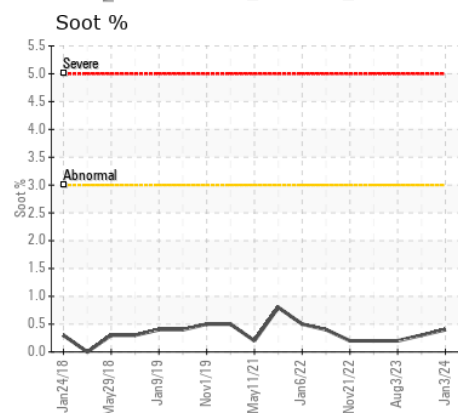
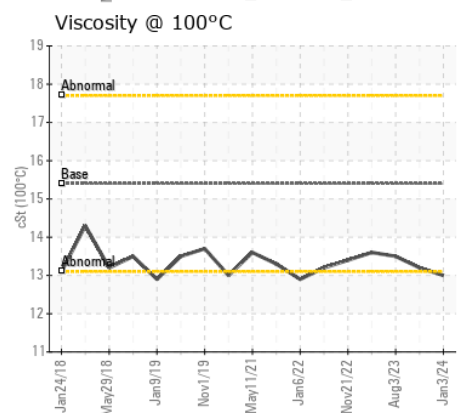
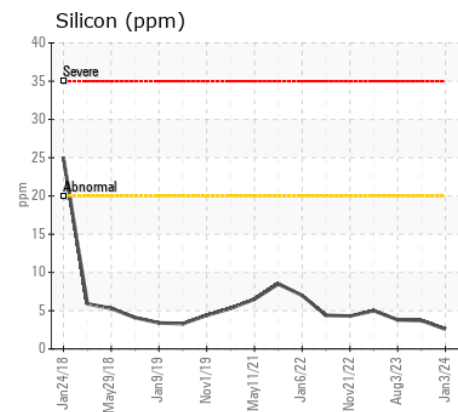
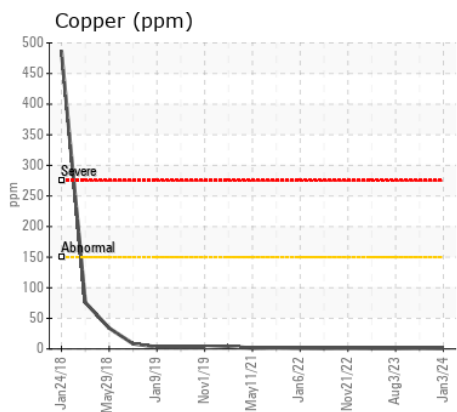
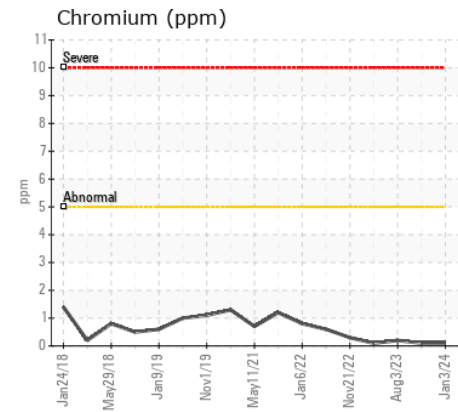
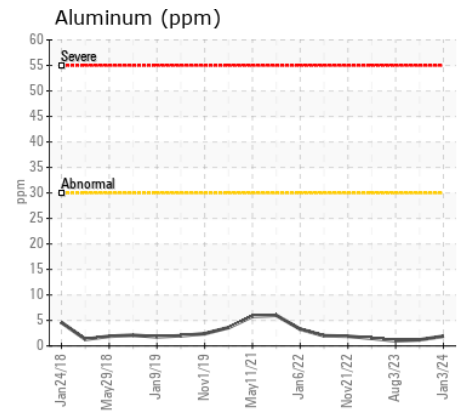
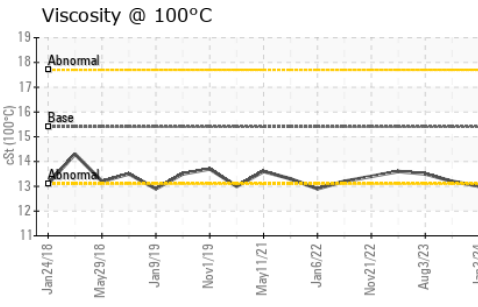
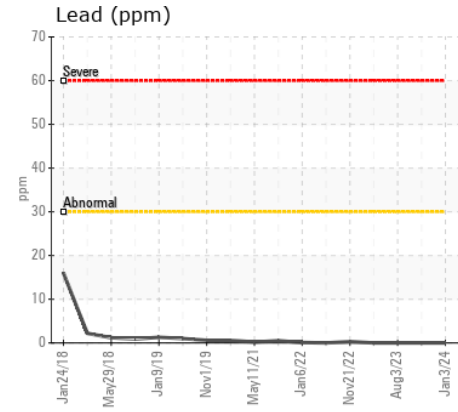
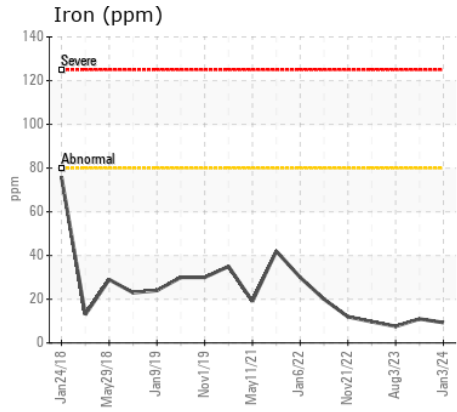
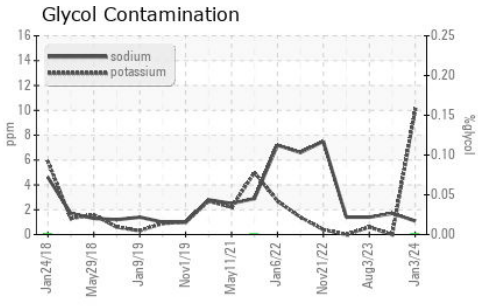
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>10</b>	0	<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	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.6</b>	10.4	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	21.5	20.2
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>1</b>	2	1
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	63	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>877</b>	1001	935
Calcium	ppm	ASTM D5185(m)	1070	<b>977</b>	1102	1027
Phosphorus	ppm	ASTM D5185(m)	1150	<b>917</b>	1013	1040
Zinc	ppm	ASTM D5185(m)	1270	<b>1102</b>	1259	1185
Sulfur	ppm	ASTM D5185(m)	2060	<b>2452</b>	2515	2469
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.5</b>	18.3	16.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.0</b>	13.2	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0097446  
**Lab Number** : 02606713  
**Unique Number** : 5707799  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**Received** : 05 Jan 2024  
**Diagnosed** : 05 Jan 2024  
**Diagnostician** : Wes Davis

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.

**GFL Environmental - 221 - Windsor**  
 905 Tecumseh Road W  
 Windsor, ON  
 CA N8W 4J5  
 Contact: Rhys Marotte  
 rmarotte@gflenv.com

T:  
 F: