



Machine Id  
**901010**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (36 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113262</b>	GFL0097571	GFL0088953
Sample Date		Client Info		<b>24 Apr 2024</b>	07 Feb 2024	25 Sep 2023
Machine Age	hrs	Client Info		<b>18607</b>	18607	0
Oil Age	hrs	Client Info		<b>18607</b>	981	0
Filter Age	hrs	Client Info		<b>18607</b>	981	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>20</b>	28	19
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

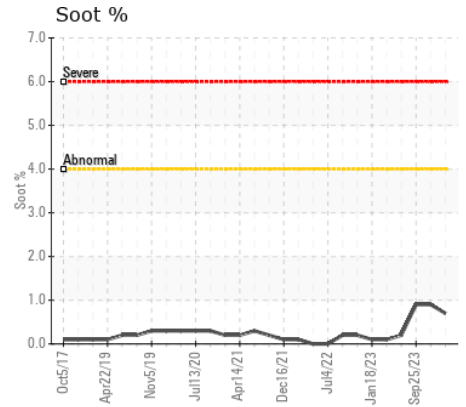
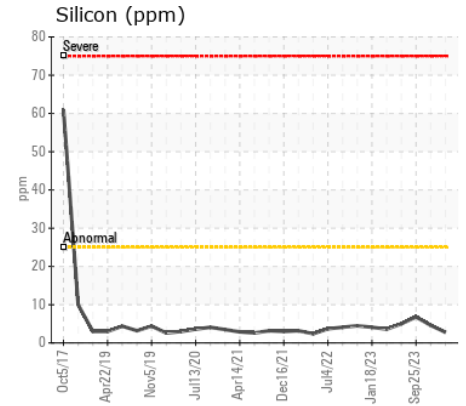
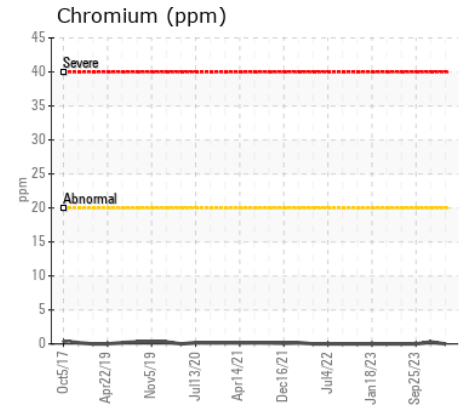
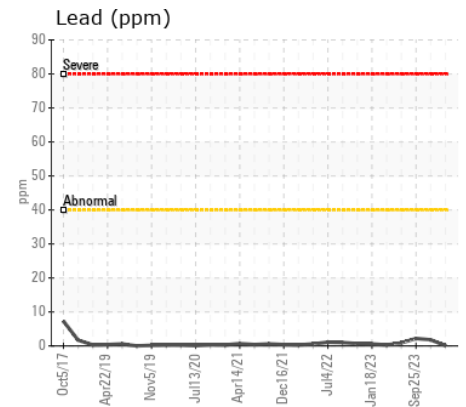
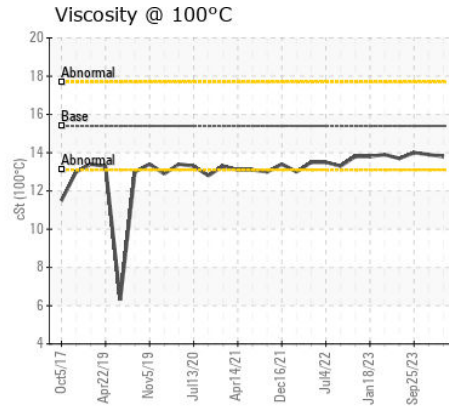
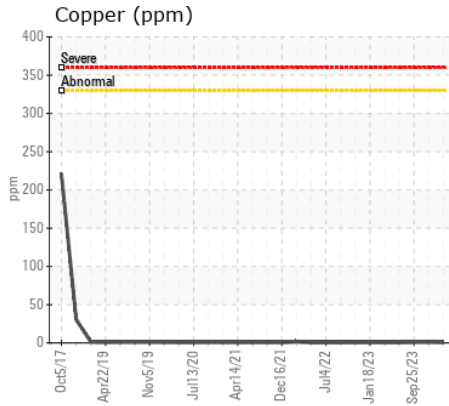
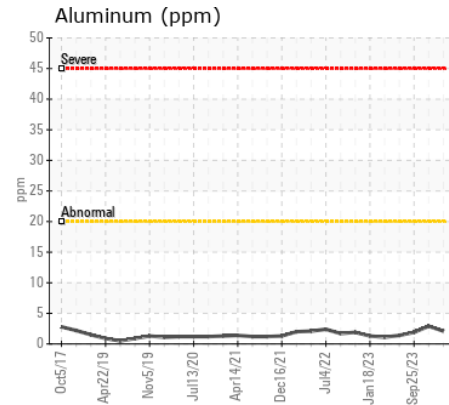
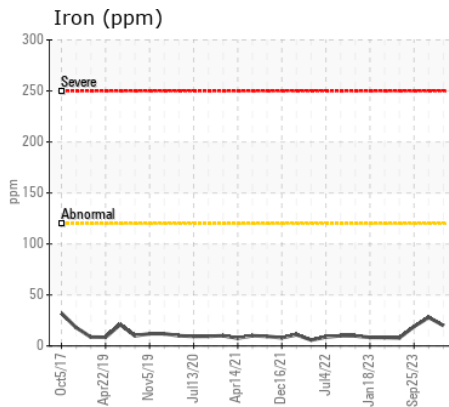
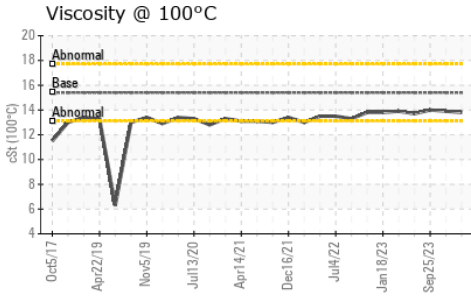
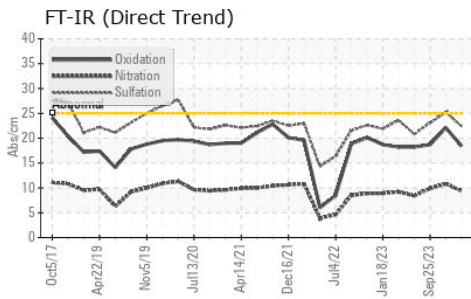
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	5	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;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>0.7</b>	0.9	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.4</b>	10.8	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</b>	25.2	23.1
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>	6	6
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	5	5
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	62	63
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>989</b>	991	997
Calcium	ppm	ASTM D5185(m)	1070	<b>1075</b>	1134	1104
Phosphorus	ppm	ASTM D5185(m)	1150	<b>969</b>	1000	1000
Zinc	ppm	ASTM D5185(m)	1270	<b>1197</b>	1225	1225
Sulfur	ppm	ASTM D5185(m)	2060	<b>2219</b>	2351	2258
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.4</b>	22.1	18.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	13.9	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113262  
**Lab Number** : 02635547  
**Unique Number** : 5776700  
**Test Package** : MOB 1

**Received** : 15 May 2024  
**Tested** : 15 May 2024  
**Diagnosed** : 15 May 2024 - Wes Davis

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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.