



Machine Id  
**901141**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113279</b>	GFL0097589	GFL0097548
Sample Date		Client Info		<b>11 Apr 2024</b>	09 Jan 2024	30 Oct 2023
Machine Age	hrs	Client Info		<b>11720</b>	11720	11003
Oil Age	hrs	Client Info		<b>11720</b>	118	10548
Filter Age	hrs	Client Info		<b>11720</b>	118	10548
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)	>120	<b>3</b>	2	4
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

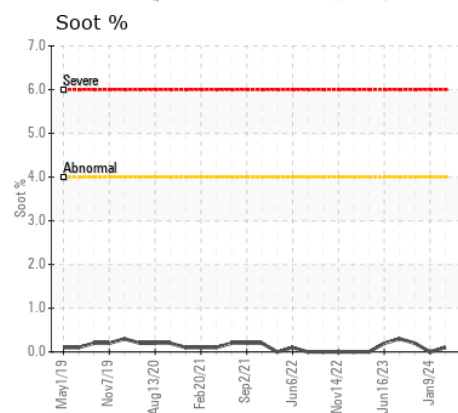
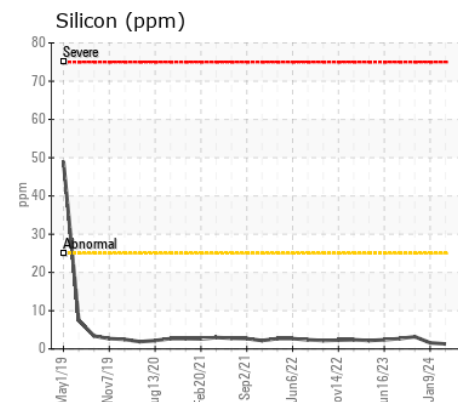
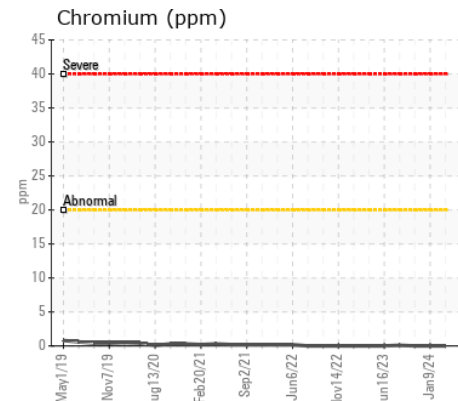
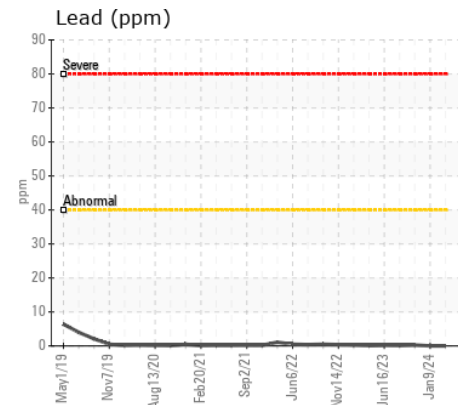
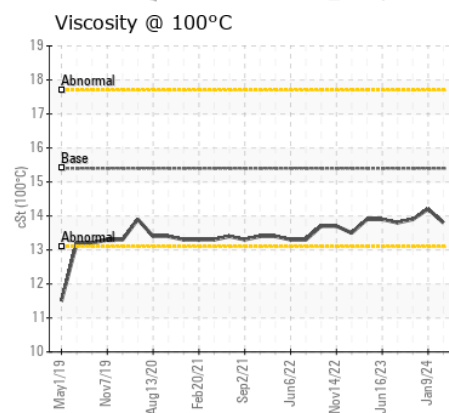
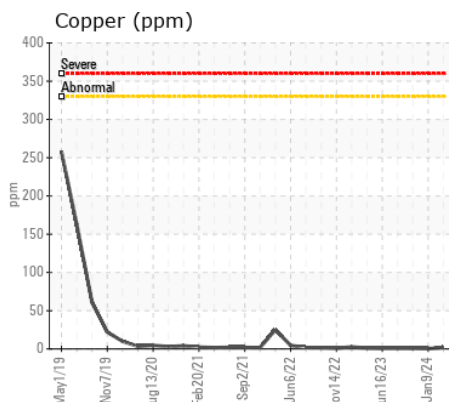
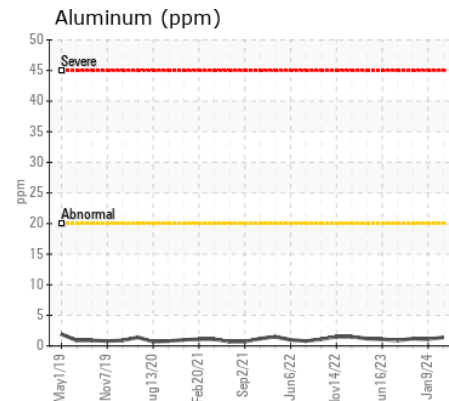
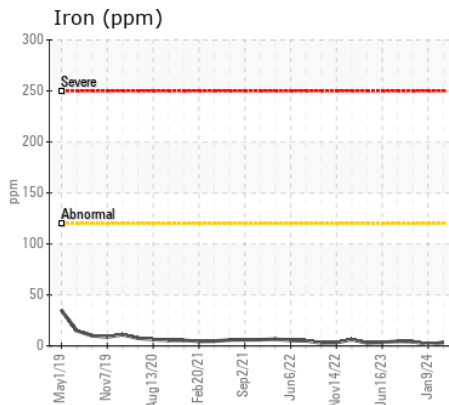
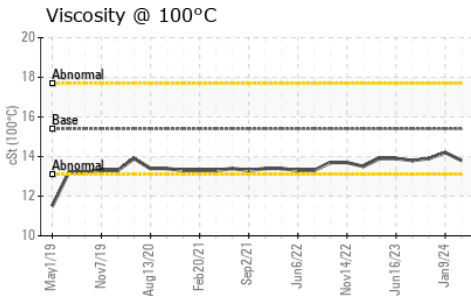
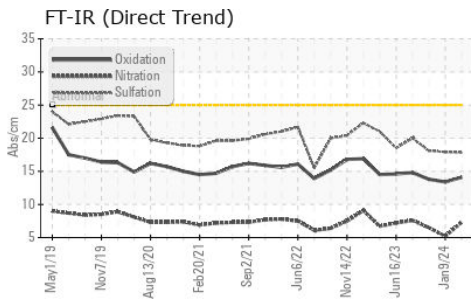
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	4	<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>0.1</b>	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.3</b>	5.2	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	17.9	18.1
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>2</b>	<1	3
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	4	6
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	55	67
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>977</b>	929	1087
Calcium	ppm	ASTM D5185(m)	1070	<b>1042</b>	1035	1208
Phosphorus	ppm	ASTM D5185(m)	1150	<b>996</b>	1009	1111
Zinc	ppm	ASTM D5185(m)	1270	<b>1166</b>	1126	1341
Sulfur	ppm	ASTM D5185(m)	2060	<b>2533</b>	2684	2836
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.1</b>	13.4	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	14.2	13.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113279  
**Lab Number** : 02628750  
**Unique Number** : 5761882  
**Test Package** : MOB 1

**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 16 Apr 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.