



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**9133**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0097300</b>	GFL0097280	GFL0097249
Sample Date		Client Info		<b>15 Mar 2024</b>	08 Feb 2024	27 Dec 2023
Machine Age	hrs	Client Info		<b>6587</b>	0	6227
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	<b>12</b>	19	32
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	4	6
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<b>1</b>	1	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

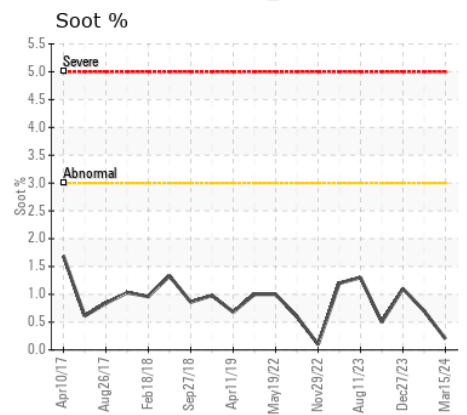
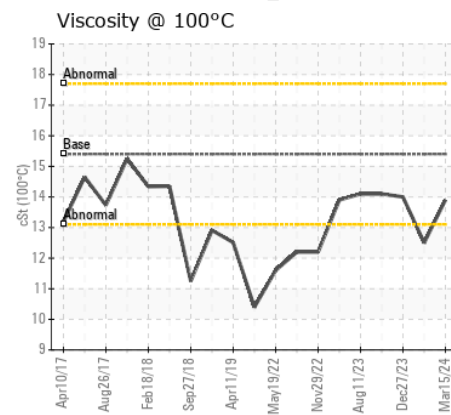
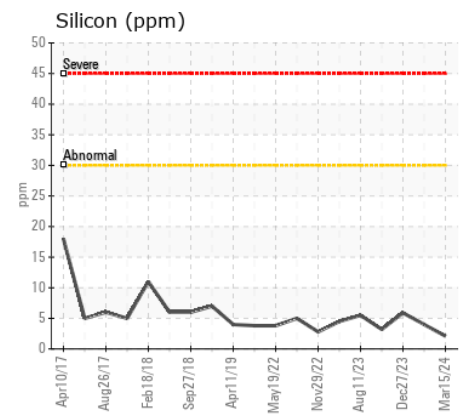
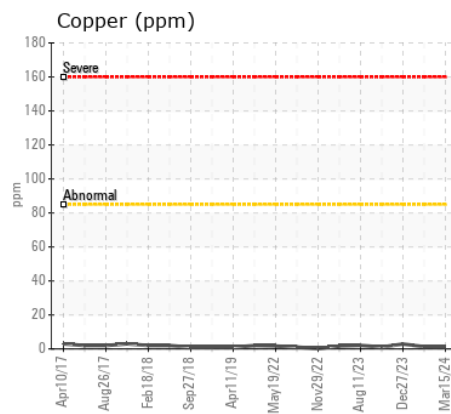
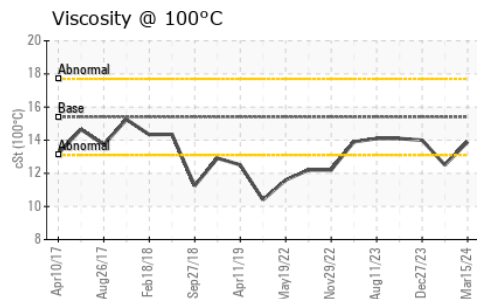
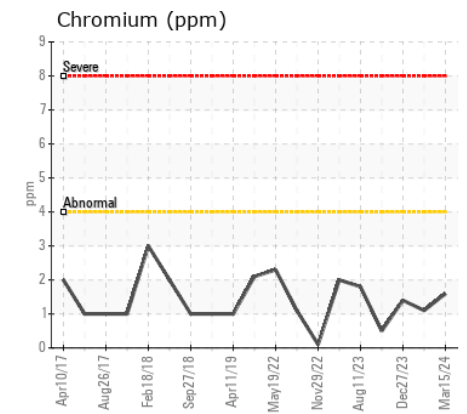
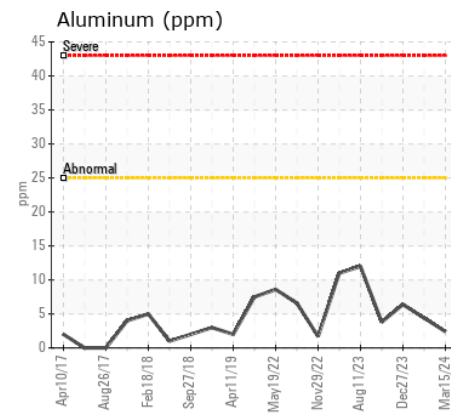
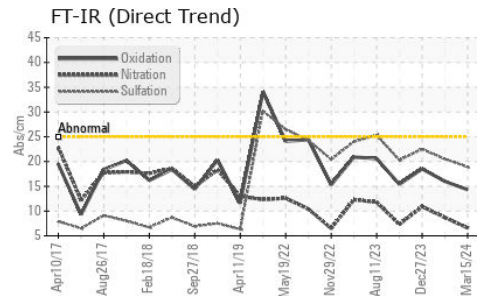
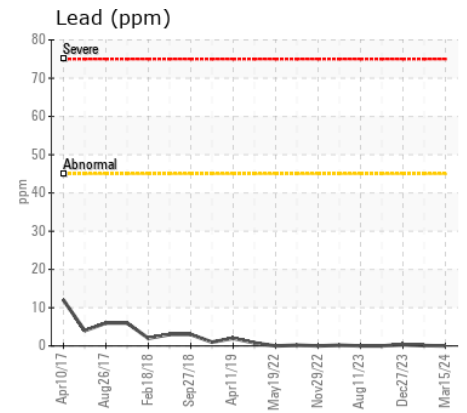
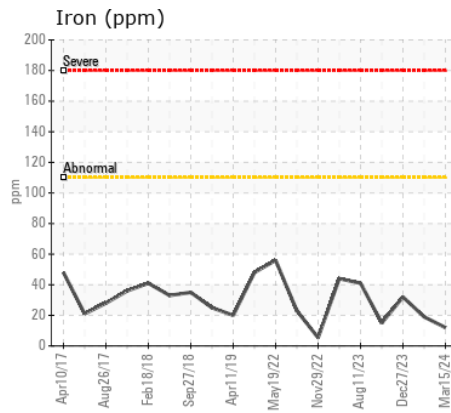
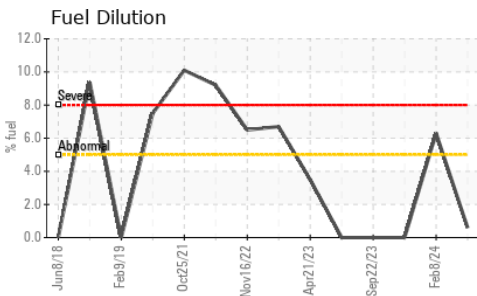
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	6	13
Fuel	%	ASTM D7593*	>5	<b>0.6</b>	▲ 6.3	<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>0.2</b>	0.7	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.6</b>	8.7	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	20.5	22.5
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>	4	6
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	54	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>927</b>	874	968
Calcium	ppm	ASTM D5185(m)	1070	<b>1025</b>	983	1079
Phosphorus	ppm	ASTM D5185(m)	1150	<b>974</b>	939	1020
Zinc	ppm	ASTM D5185(m)	1270	<b>1133</b>	1081	1198
Sulfur	ppm	ASTM D5185(m)	2060	<b>2444</b>	2497	2656
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.3</b>	16.0	18.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	▲ 12.5	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0097300  
**Lab Number** : 02632513  
**Unique Number** : 5773666  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )  
**Received** : 01 May 2024  
**Tested** : 02 May 2024  
**Diagnosed** : 02 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.