



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

Machine Id  
**4625**  
 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>GFL0097298</b>	GFL0064886	GFL0064872
Sample Date		Client Info		<b>05 Jun 2024</b>	27 Jun 2023	22 Mar 2023
Machine Age	hrs	Client Info		<b>5347</b>	3992	0
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>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>43</b>	38	39
Chromium	ppm	ASTM D5185(m)	>4	<b>3</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m)	>50	<b>4</b>	6	5
Copper	ppm	ASTM D5185(m)	>55	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>1</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

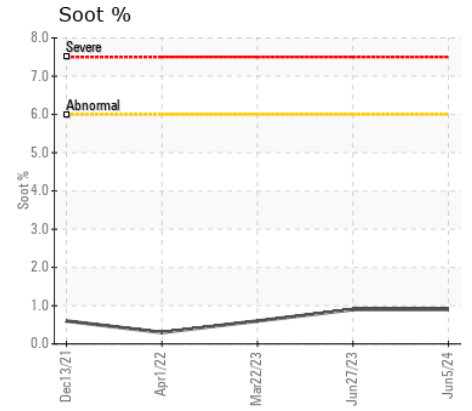
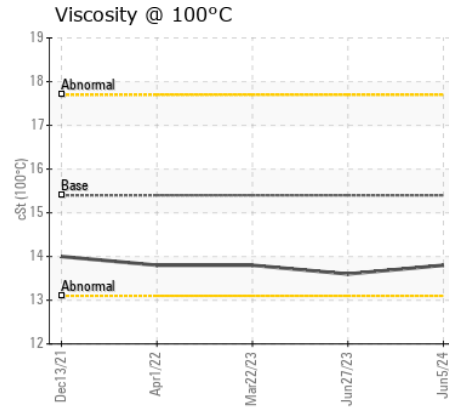
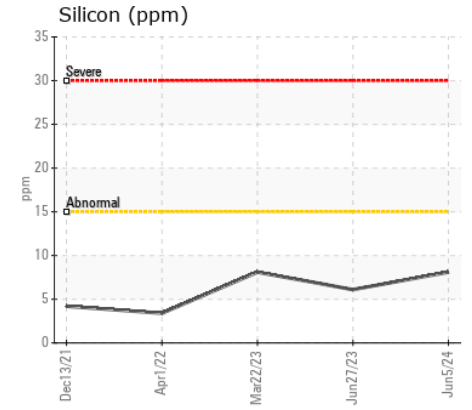
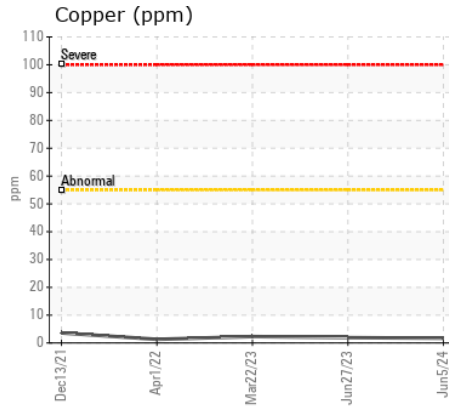
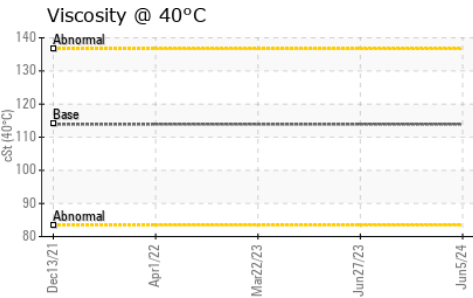
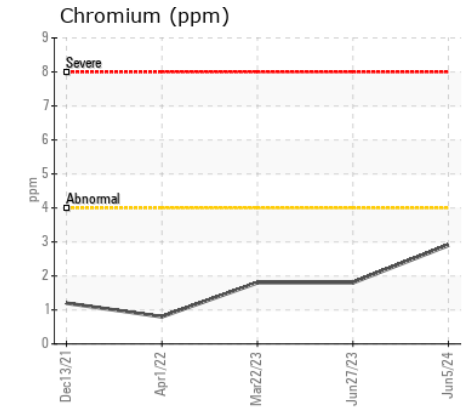
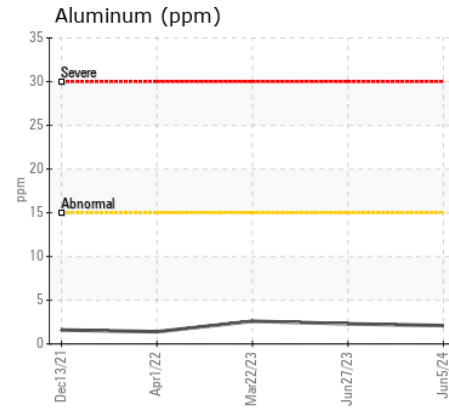
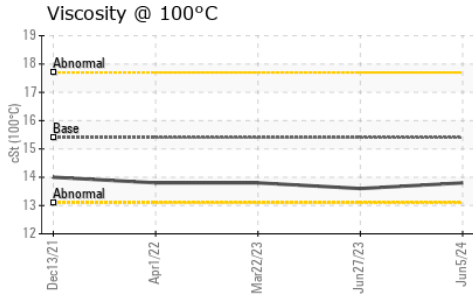
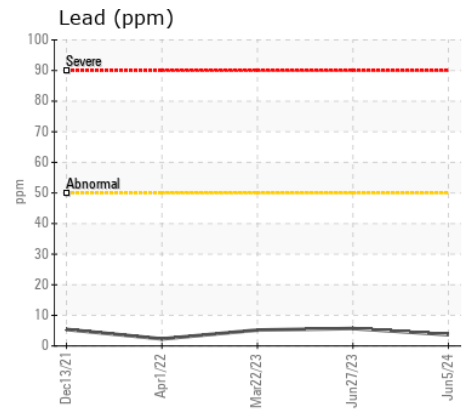
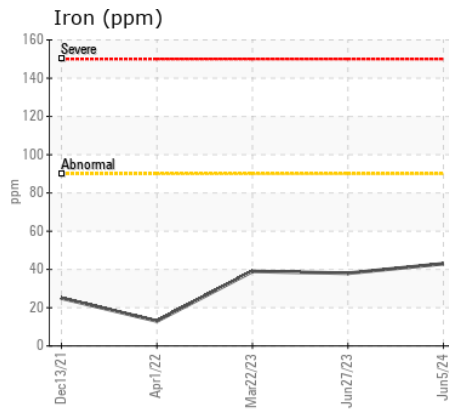
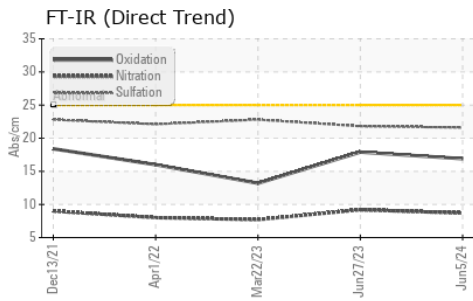
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<b>8</b>	6	8
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*	>6	<b>0.9</b>	0.9	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.7</b>	9.2	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.6</b>	21.8	22.8
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>6</b>	4	4
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	4	4
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>63</b>	61	63
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1000</b>	1008	1006
Calcium	ppm	ASTM D5185(m)	1070	<b>1129</b>	1093	1151
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1032</b>	1100	1111
Zinc	ppm	ASTM D5185(m)	1270	<b>1240</b>	1237	1245
Sulfur	ppm	ASTM D5185(m)	2060	<b>2489</b>	2494	2515
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.9</b>	17.9	13.2
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	<b>99.2</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	13.6	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	142	<b>140</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0097298 **Received** : 18 Jun 2024  
**Lab Number** : 02642545 **Tested** : 18 Jun 2024  
**Unique Number** : 5800084 **Diagnosed** : 18 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**GFL Environmental - 558 - Grand Prairie**  
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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.