



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

Machine Id  
**4626**  
 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>GFL0097296</b>	GFL0097248	GFL0064853
Sample Date		Client Info		<b>17 Jun 2024</b>	28 Dec 2023	12 May 2023
Machine Age	kms	Client Info		<b>16685</b>	16270	0
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>110	<b>15</b>	8	4
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
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>1</b>	2	<1
Lead	ppm	ASTM D5185(m)	>45	<b>3</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<b>5</b>	1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

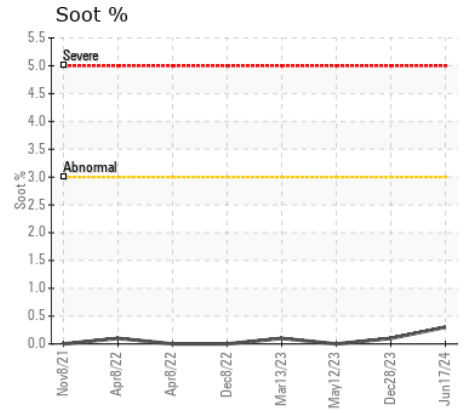
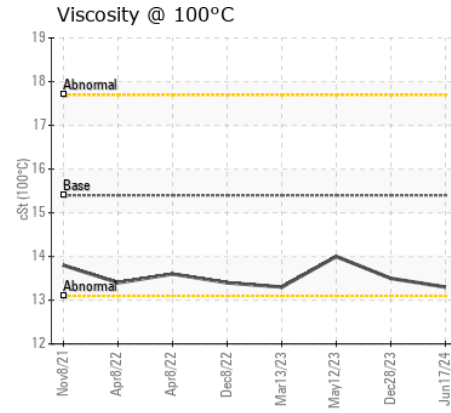
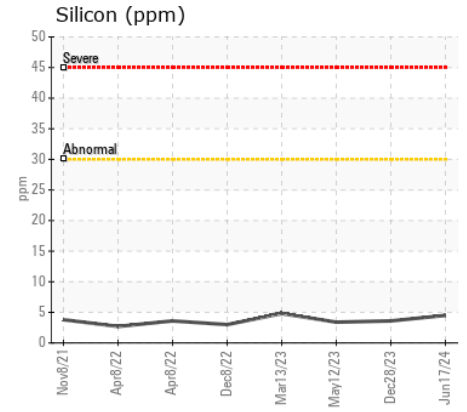
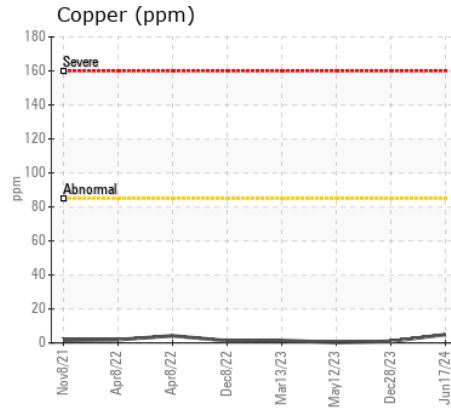
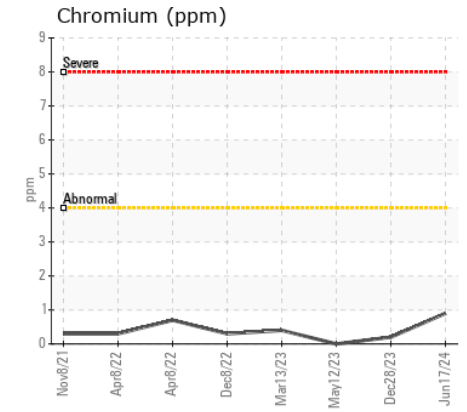
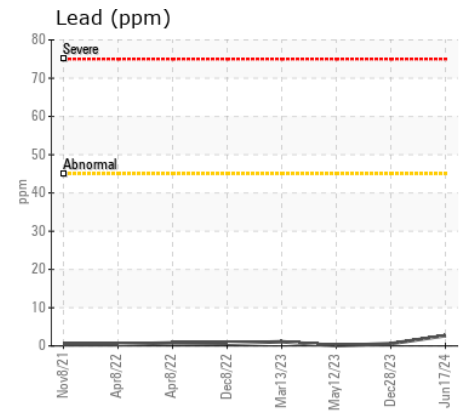
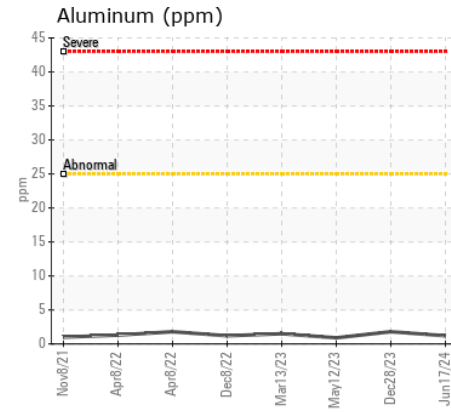
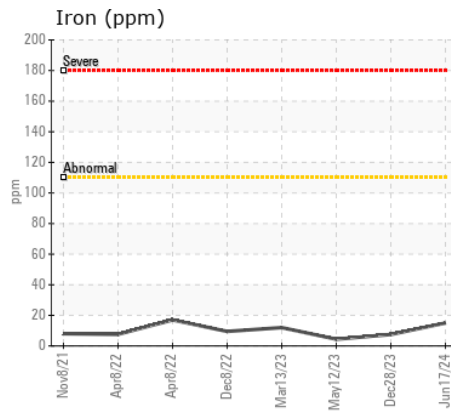
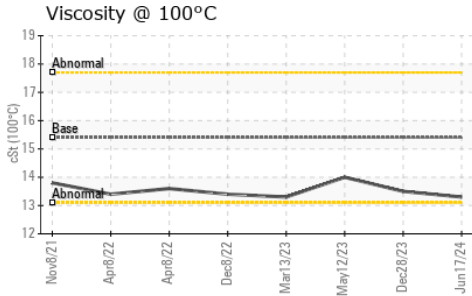
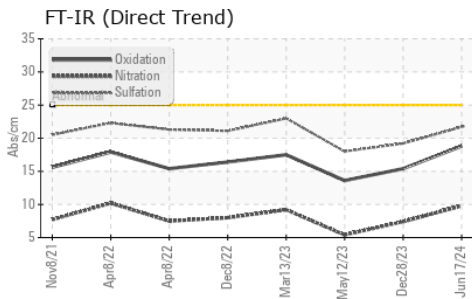
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>4</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Fuel		WC Method	>5	<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*	>3	<b>0.3</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.8</b>	7.4	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.7</b>	19.2	18.0
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
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>4</b>	3	2
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	6	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>62</b>	57	57
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1000</b>	939	921
Calcium	ppm	ASTM D5185(m)	1070	<b>1106</b>	1031	1079
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1017</b>	997	1068
Zinc	ppm	ASTM D5185(m)	1270	<b>1246</b>	1146	1157
Sulfur	ppm	ASTM D5185(m)	2060	<b>2474</b>	2659	2687
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.8</b>	15.4	13.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.3</b>	13.5	14.0



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0097296  
**Lab Number** : 02643156  
**Unique Number** : 5800695  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 558 - Grand Prairie**  
 8003 - 110 Street,  
 Grande Prairie, AB  
 CA T8W 6T2  
 Contact: Tristen Ebach  
 tebach@gflenv.com  
 T: (780)532-3086  
 F: (780)513-5217

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.