



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

Machine Id  
**518002**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0108212</b>	GFL0047662	GFL0047680
Sample Date		Client Info		<b>02 Apr 2024</b>	20 Jan 2024	09 Jun 2022
Machine Age	hrs	Client Info		<b>12674</b>	12143	8226
Oil Age	hrs	Client Info		<b>500</b>	492	600
Filter Age	hrs	Client Info		<b>500</b>	492	600
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)	>165	<b>19</b>	19	28
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	12
Lead	ppm	ASTM D5185(m)	>150	<b>2</b>	3	6
Copper	ppm	ASTM D5185(m)	>90	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

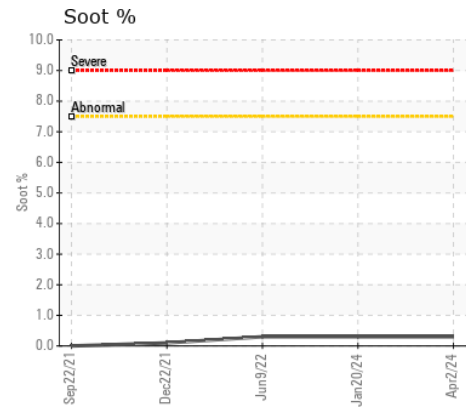
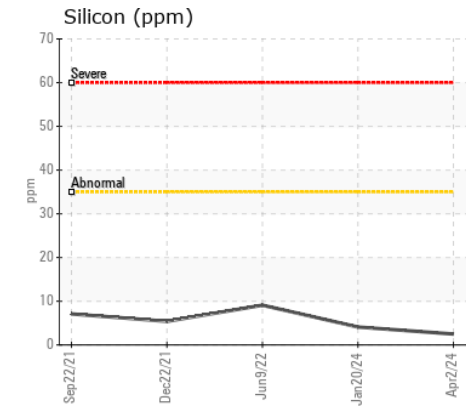
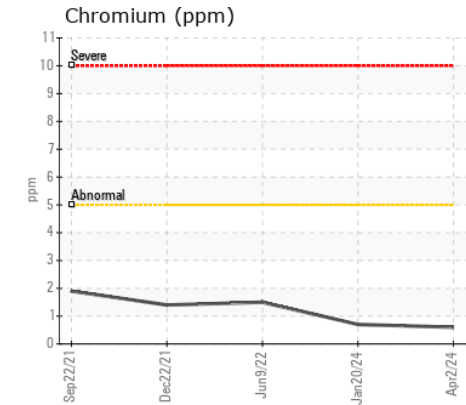
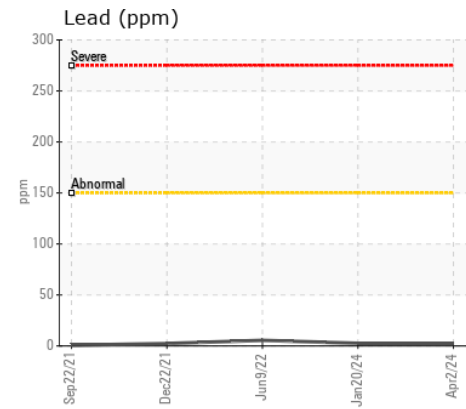
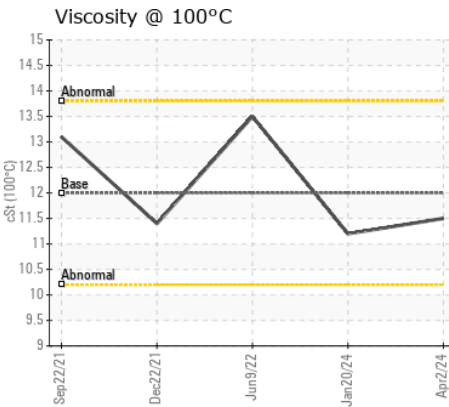
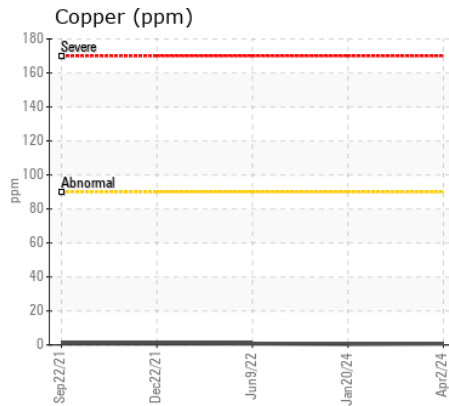
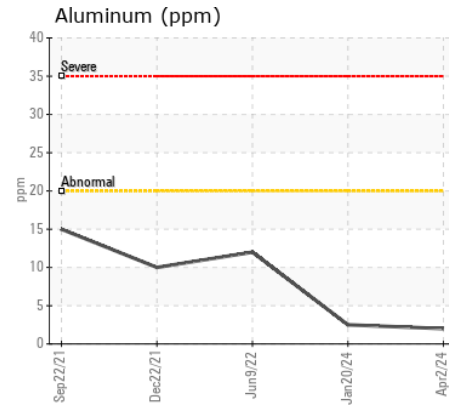
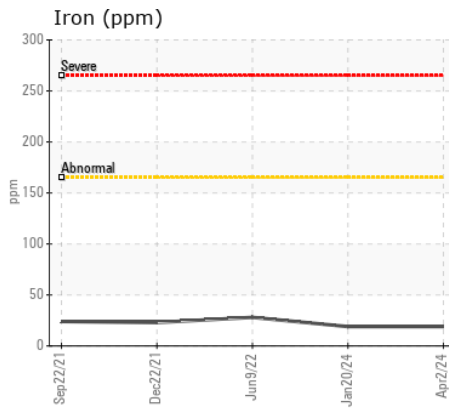
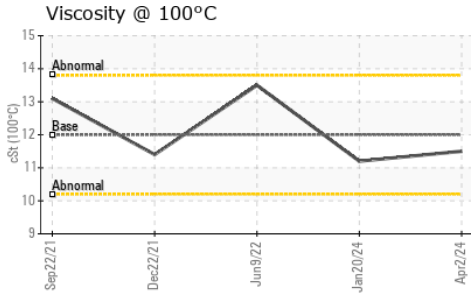
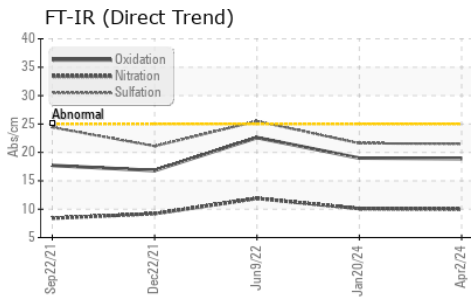
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>2</b>	4	9
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	25
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*	>7.5	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	10.1	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.5</b>	21.6	25.5
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
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>2</b>	2	6
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	2	21
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>63</b>	62	53
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>1043</b>	1007	896
Calcium	ppm	ASTM D5185(m)	1050	<b>1140</b>	1112	1277
Phosphorus	ppm	ASTM D5185(m)	995	<b>1042</b>	1041	813
Zinc	ppm	ASTM D5185(m)	1180	<b>1270</b>	1256	965
Sulfur	ppm	ASTM D5185(m)	2600	<b>2488</b>	2666	2008
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.9</b>	19.0	22.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.5</b>	11.2	13.5



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0108212  
**Lab Number** : 02631098  
**Unique Number** : 5772251  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 355 - Saskatoon**  
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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.