



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



Machine Id  
**512004**  
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>GFL0120313</b>	GFL0090888	GFL0084218
Sample Date		Client Info		<b>03 Jun 2024</b>	03 Oct 2023	16 Jun 2023
Machine Age	kms	Client Info		<b>399707</b>	289501	234910
Oil Age	kms	Client Info		<b>0</b>	0	60
Filter Age	kms	Client Info		<b>0</b>	0	60
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
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)	>120	<b>31</b>	35	38
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>1</b>	<1	3
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	4	4
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	3	3
Copper	ppm	ASTM D5185(m)	>330	<b>8</b>	11	13
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

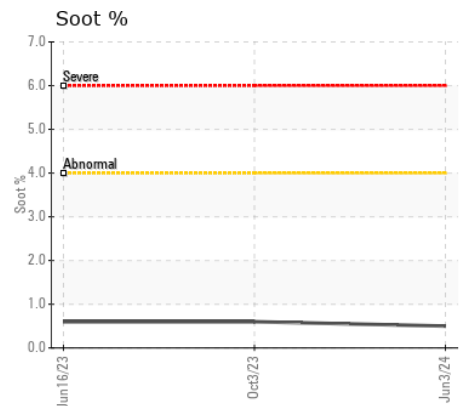
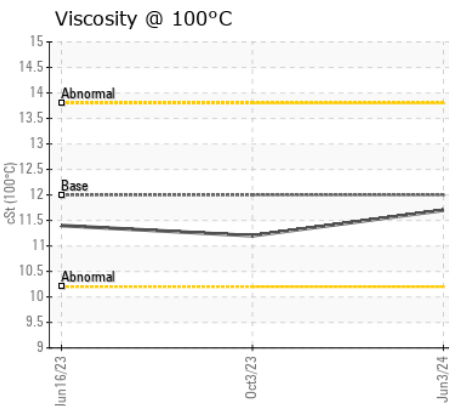
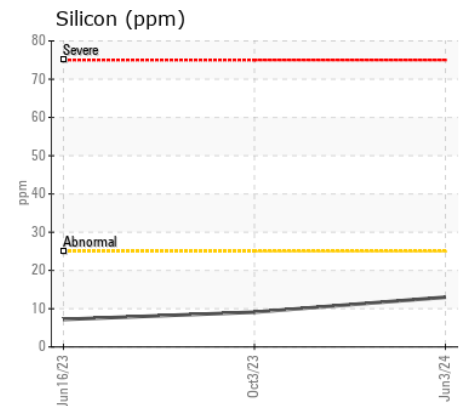
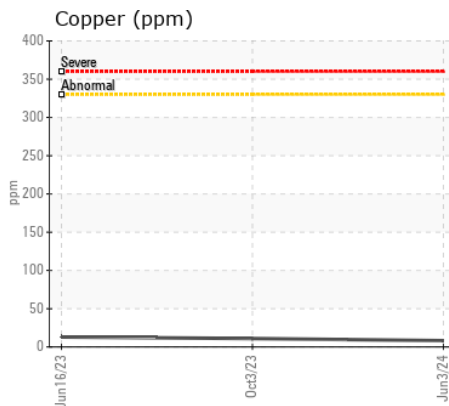
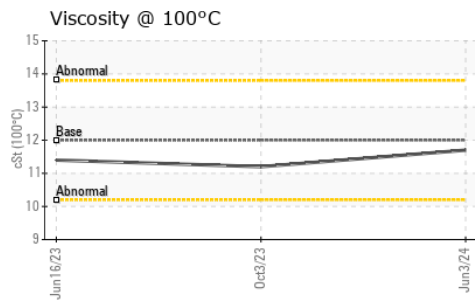
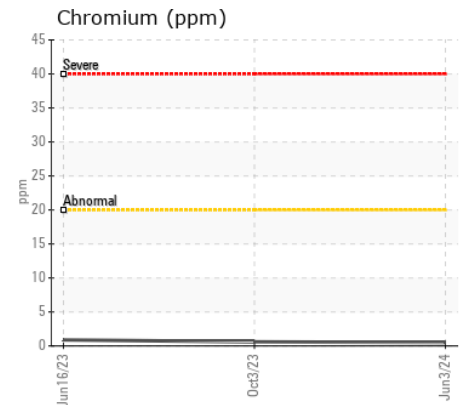
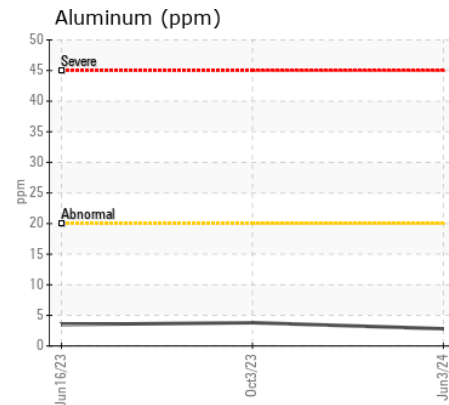
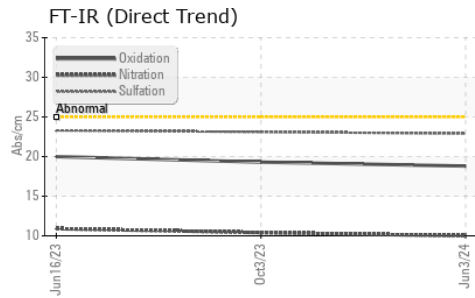
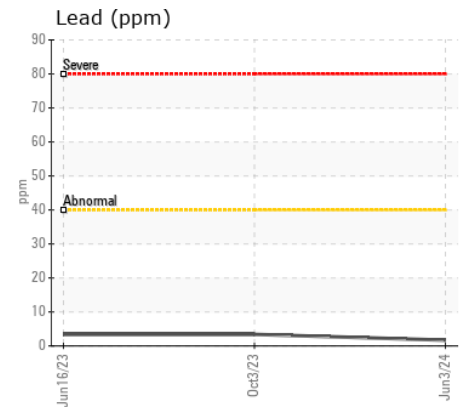
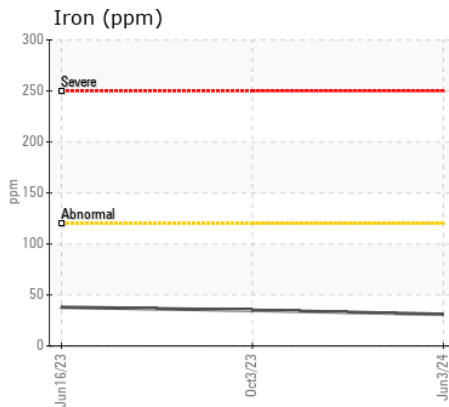
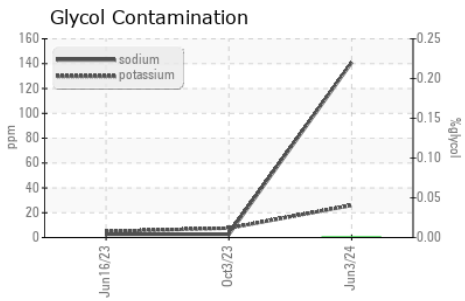
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>13</b>	9	7
Potassium	ppm	ASTM D5185(m)	>20	<b>26</b>	8	5
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	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0.5</b>	0.6	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	10.4	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.9</b>	23.1	23.3
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>141</b>	3	3
Boron	ppm	ASTM D5185(m)	2	<b>9</b>	3	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	66	61
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>891</b>	992	975
Calcium	ppm	ASTM D5185(m)	1050	<b>1243</b>	1180	1228
Phosphorus	ppm	ASTM D5185(m)	995	<b>1007</b>	973	1030
Zinc	ppm	ASTM D5185(m)	1180	<b>1209</b>	1247	1282
Sulfur	ppm	ASTM D5185(m)	2600	<b>2296</b>	2231	2228
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.8</b>	19.3	20.0
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.7</b>	11.2	11.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120313 **Received** : 05 Jun 2024  
**Lab Number** : 02639793 **Tested** : 05 Jun 2024  
**Unique Number** : 5788955 **Diagnosed** : 05 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )

**GFL Environmental - 245 - BJ Bear**  
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 F:

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.