

Machine Id  
**801107**  
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>GFL0112435</b>	GFL0117330	GFL0099613
Sample Date		Client Info		<b>30 Jun 2024</b>	09 Apr 2024	03 Feb 2024
Machine Age	kms	Client Info		<b>5616907</b>	14866	14409
Oil Age	kms	Client Info		<b>0</b>	455	594
Filter Age	kms	Client Info		<b>0</b>	455	594
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)	>80	<b>20</b>	14	18
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>4</b>	3	4
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

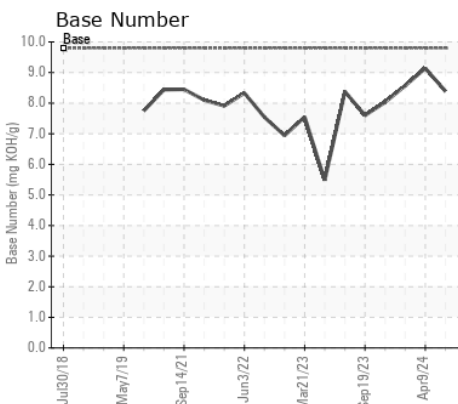
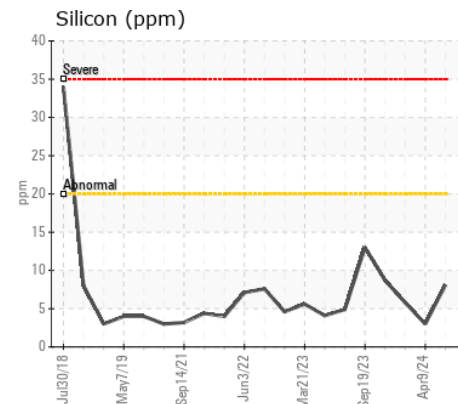
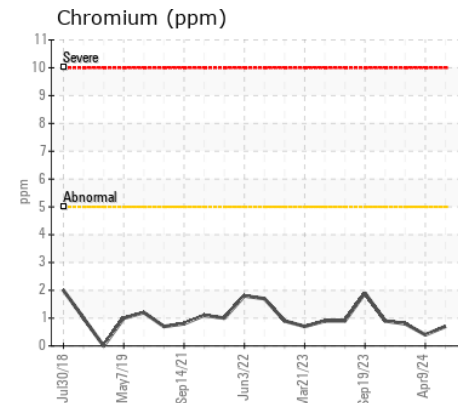
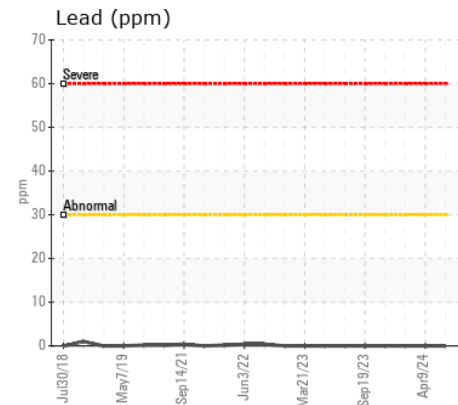
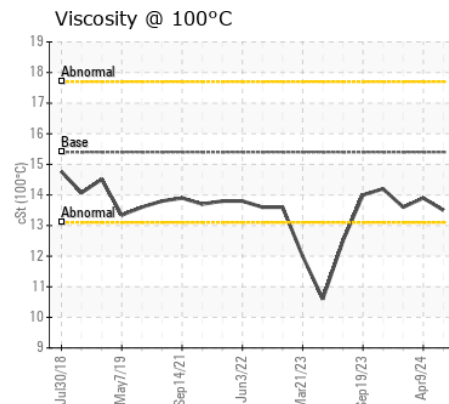
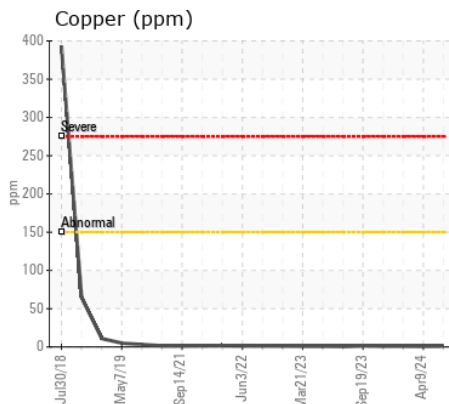
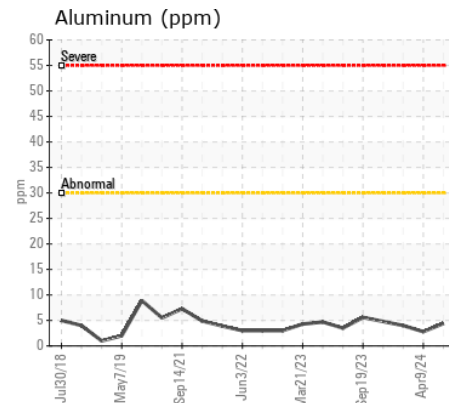
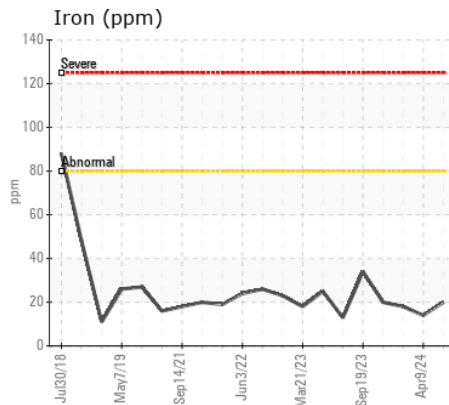
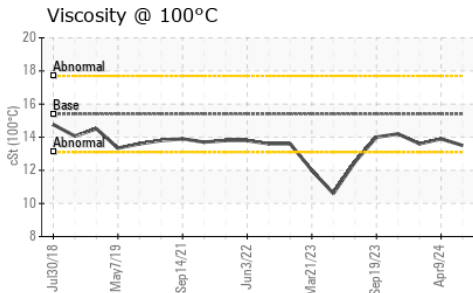
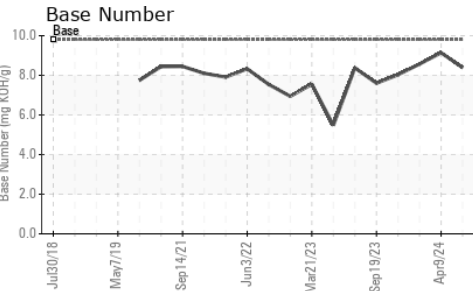
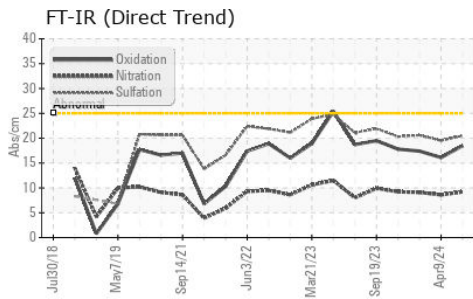
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>8</b>	3	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	2
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>	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	8.6	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.5</b>	19.5	20.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>6</b>	6	6
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	57	57
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>955</b>	944	927
Calcium	ppm	ASTM D5185(m)	1070	<b>1036</b>	1043	1065
Phosphorus	ppm	ASTM D5185(m)	1150	<b>989</b>	978	980
Zinc	ppm	ASTM D5185(m)	1270	<b>1180</b>	1171	1172
Sulfur	ppm	ASTM D5185(m)	2060	<b>2435</b>	2346	2461
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.5</b>	16.1	17.4
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>8.39</b>	9.14	8.57
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	13.9	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112435  
**Lab Number** : 02645714  
**Unique Number** : 5803253  
**Test Package** : MOB 2

**Received** : 05 Jul 2024  
**Tested** : 05 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Wes Davis

**GFL Environmental - 550 - Rocky View County**  
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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.