



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

Machine Id  
**351003**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117268</b>	GFL0049053	GFL0022178
Sample Date		Client Info		<b>23 Apr 2024</b>	23 Mar 2022	18 Apr 2021
Machine Age	kms	Client Info		<b>94</b>	204444	195476
Oil Age	kms	Client Info		<b>94</b>	0	0
Filter Age	kms	Client Info		<b>94</b>	0	0
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**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>8</b>	9	51
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	4
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	1	6
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	<1	8
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

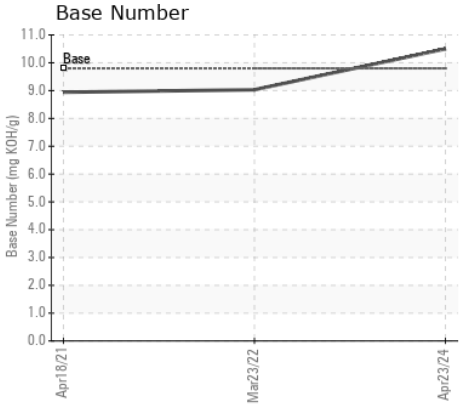
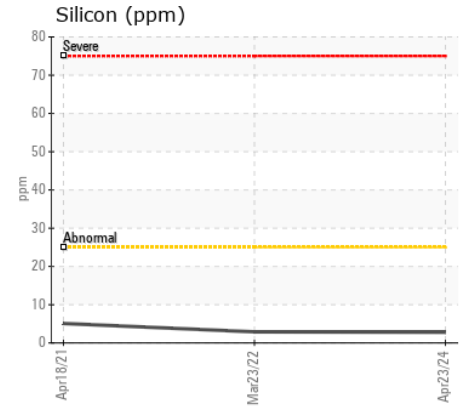
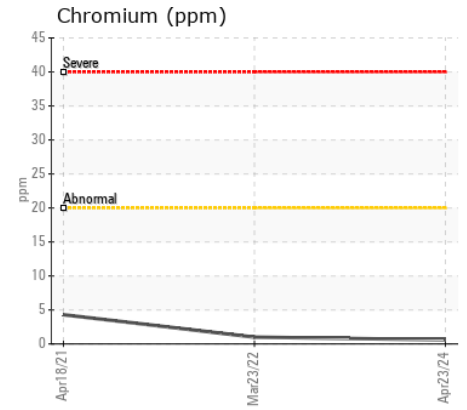
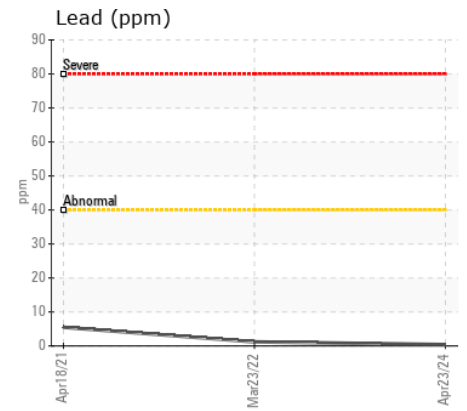
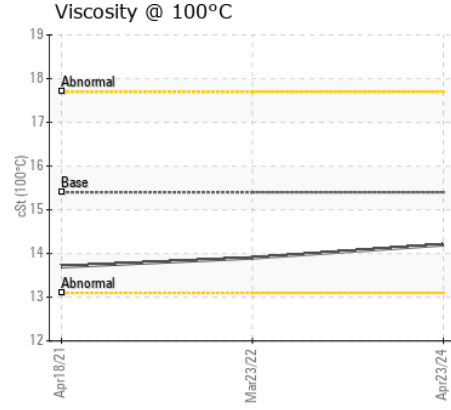
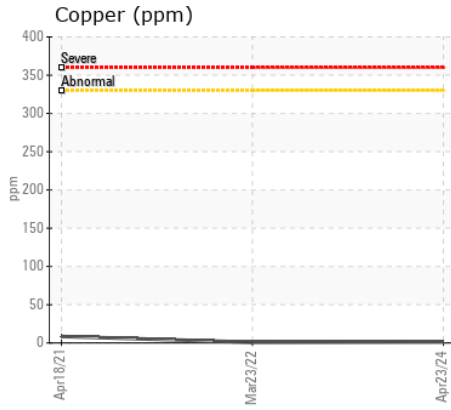
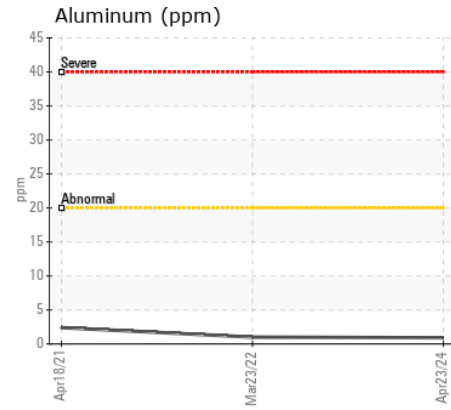
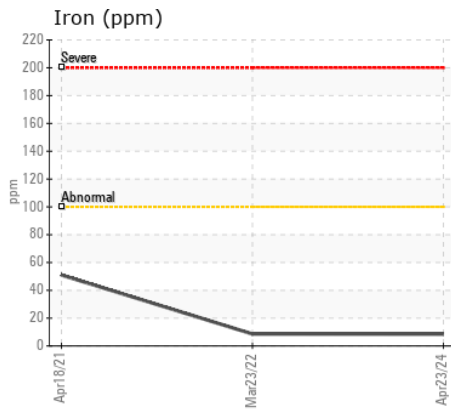
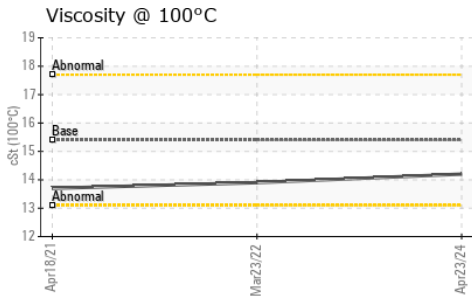
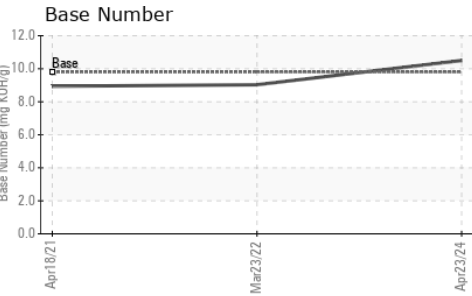
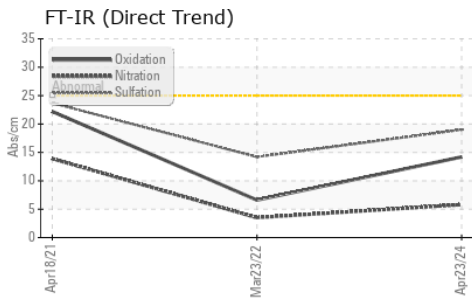
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	5
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
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>0.2</b>	0	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.8</b>	3.5	13.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.0</b>	14.2	23.7
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>1</b>	1	5
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	3	28
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	57	64
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	1010	<b>921</b>	974	1142
Calcium	ppm	ASTM D5185(m)	1070	<b>1040</b>	1036	1039
Phosphorus	ppm	ASTM D5185(m)	1150	<b>946</b>	1033	1041
Zinc	ppm	ASTM D5185(m)	1270	<b>1128</b>	1192	1363
Sulfur	ppm	ASTM D5185(m)	2060	<b>2443</b>	2536	2824
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.2</b>	6.6	22.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>10.50</b>	9.03	8.94
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	13.9	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117268  
**Lab Number** : 02632515  
**Unique Number** : 5773668  
**Test Package** : MOB 2  
**Received** : 01 May 2024  
**Tested** : 02 May 2024  
**Diagnosed** : 02 May 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.