



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

Machine Id  
**INTERNATIONAL 520052**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SAE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0122268</b>	GFL0071129	GFL0071108
Sample Date		Client Info		<b>09 May 2024</b>	03 Mar 2023	01 Feb 2023
Machine Age	kms	Client Info		<b>14479</b>	881464	846726
Oil Age	kms	Client Info		<b>317</b>	0	0
Filter Age	kms	Client Info		<b>317</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>83</b>	39	11
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	4	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>28</b>	▲ 22	4
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

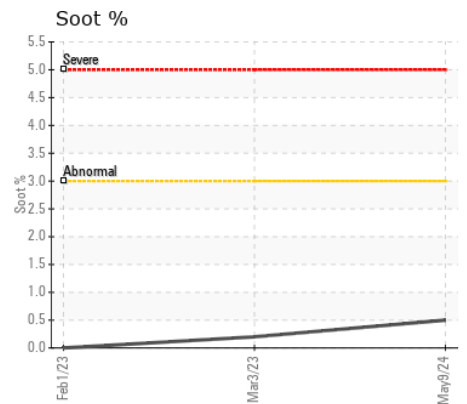
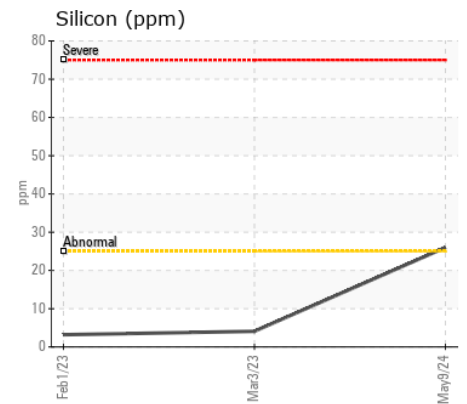
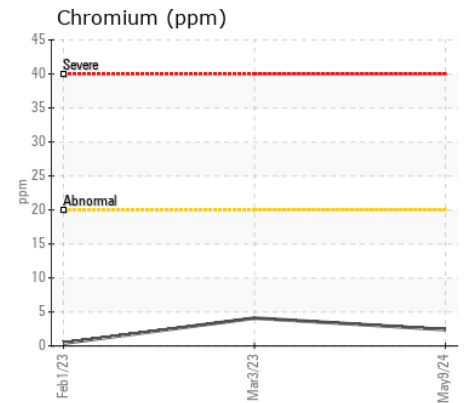
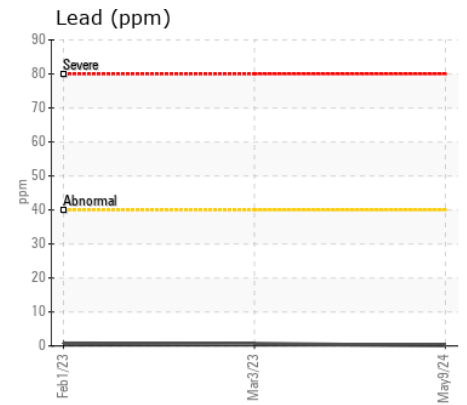
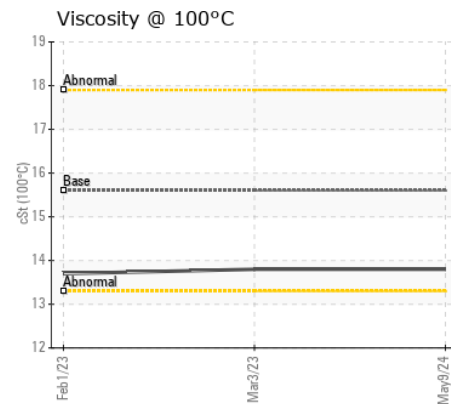
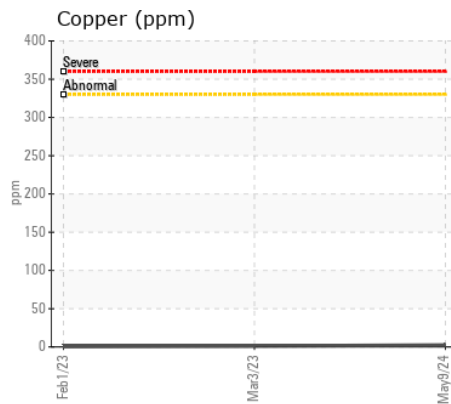
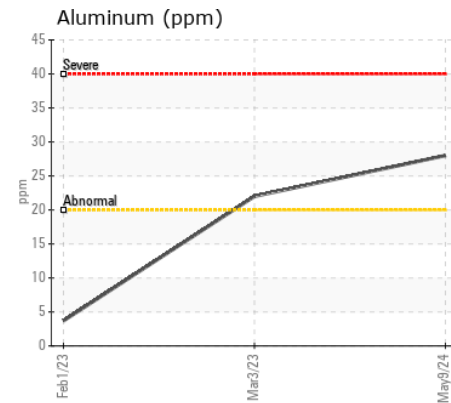
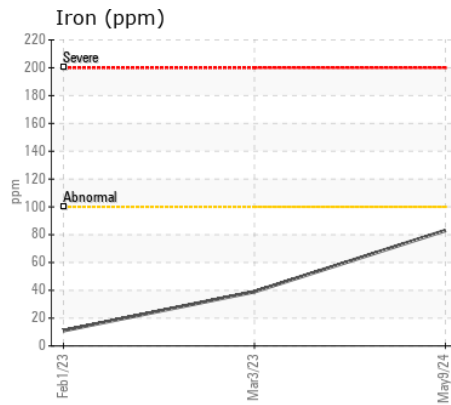
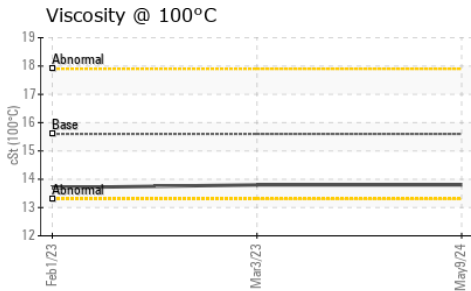
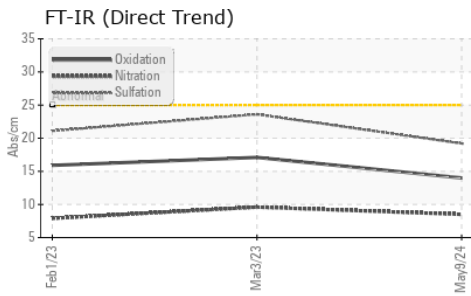
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>26</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Fuel		WC Method	>2.0	<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*	>3	<b>0.5</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	9.6	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.2</b>	23.6	21.1
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>	6	2
Boron	ppm	ASTM D5185(m)	1	<b>3</b>	2	3
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	62	59
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>916</b>	1011	983
Calcium	ppm	ASTM D5185(m)	1070	<b>1043</b>	1128	1140
Phosphorus	ppm	ASTM D5185(m)	1150	<b>966</b>	1099	1074
Zinc	ppm	ASTM D5185(m)	1270	<b>1164</b>	1248	1222
Sulfur	ppm	ASTM D5185(m)	2060	<b>2477</b>	2568	2587
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.0</b>	17.1	15.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.8</b>	13.8	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0122268  
**Lab Number** : 02637364  
**Unique Number** : 5786526  
**Test Package** : MOB 1  
**Received** : 24 May 2024  
**Tested** : 24 May 2024  
**Diagnosed** : 24 May 2024 - Wes Davis

**GFL Environmental - 987 - Charlottetown**  
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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.