



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

Machine Id  
**726046-310041**  
 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>GFL0117178</b>	GFL0114042	GFL0109789
Sample Date		Client Info		<b>12 Apr 2024</b>	21 Mar 2024	26 Feb 2024
Machine Age	hrs	Client Info		<b>15661</b>	15522	15387
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	SEVERE

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>12</b>	8	▲ 112
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	5
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	1	7
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	10
Copper	ppm	ASTM D5185m	>150	<b>&lt;1</b>	5	5
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

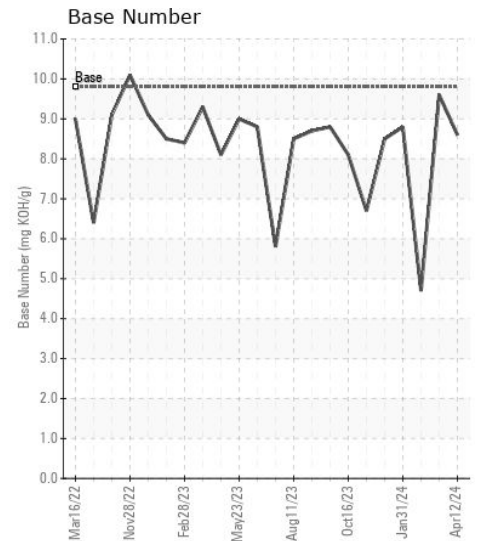
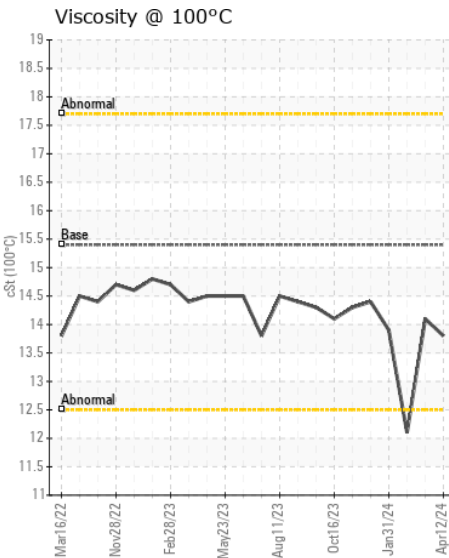
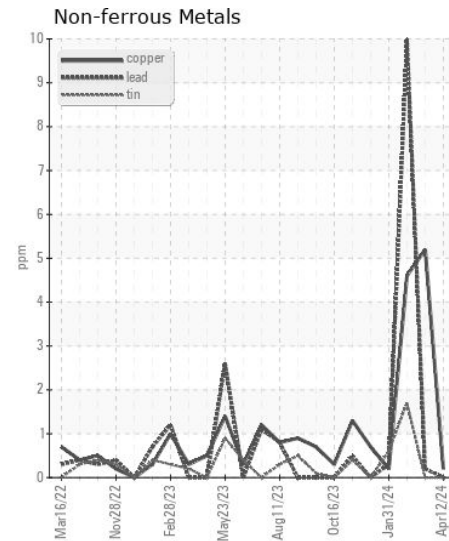
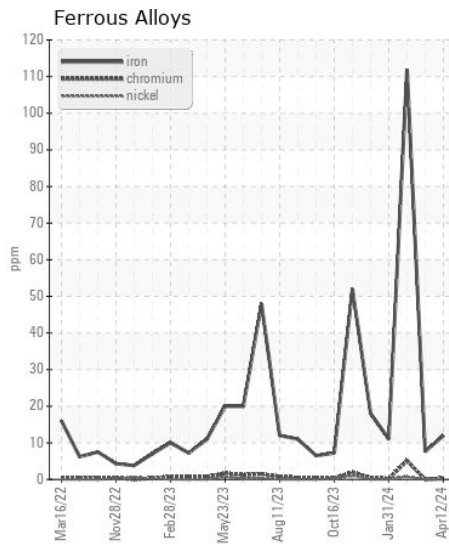
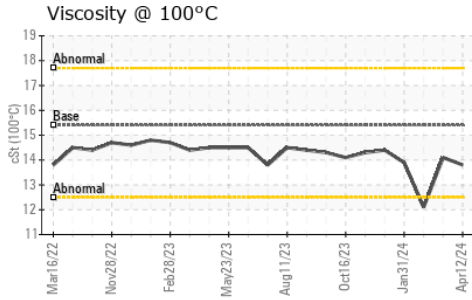
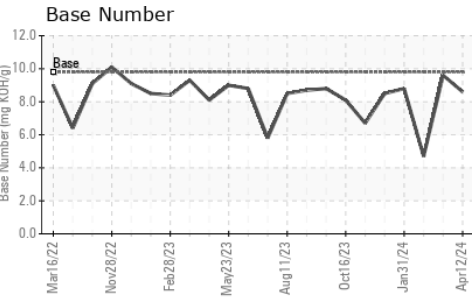
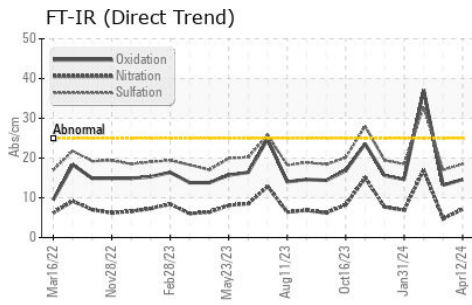
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>4</b>	5	13
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	▲ 69	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.5	▲ 11.0
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>	0.1	1.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.1</b>	4.8	17.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.5</b>	17.0	32.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
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 D5185m		<b>9</b>	45	5
Boron	ppm	ASTM D5185m	0	<b>5</b>	8	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	69	65
Manganese	ppm	ASTM D5185m	0	<b>0</b>	0	1
Magnesium	ppm	ASTM D5185m	1010	<b>880</b>	939	976
Calcium	ppm	ASTM D5185m	1070	<b>1059</b>	1157	1110
Phosphorus	ppm	ASTM D5185m	1150	<b>967</b>	1072	944
Zinc	ppm	ASTM D5185m	1270	<b>1119</b>	1251	1277
Sulfur	ppm	ASTM D5185m	2060	<b>3320</b>	3767	2754
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	13.2	37.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.6</b>	9.6	4.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	14.1	▲ 12.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0117178  
**Lab Number** : 06151033  
**Unique Number** : 10981111  
**Test Package** : FLEET

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 17 Apr 2024 - Wes Davis

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Loyce Stewart  
 loyce.stewart@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: