



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

Area  
**(TB6606)**  
Machine Id  
**412070**  
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>GFL0113028</b>	GFL0113051	GFL0113039
Sample Date		Client Info		<b>17 Jun 2024</b>	16 Apr 2024	22 Feb 2024
Machine Age	hrs	Client Info		<b>5086</b>	4780	4261
Oil Age	hrs	Client Info		<b>598</b>	601	0
Filter Age	hrs	Client Info		<b>598</b>	601	0
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	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>12</b>	22	38
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	4	6
Lead	ppm	ASTM D5185m	>150	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>90	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

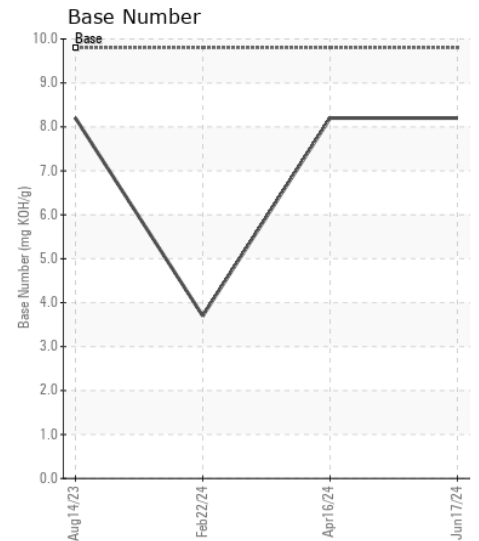
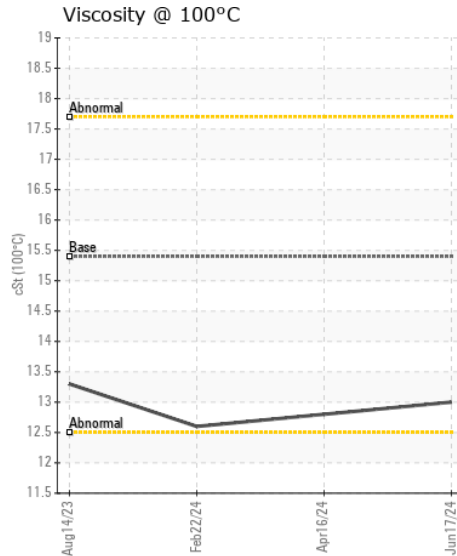
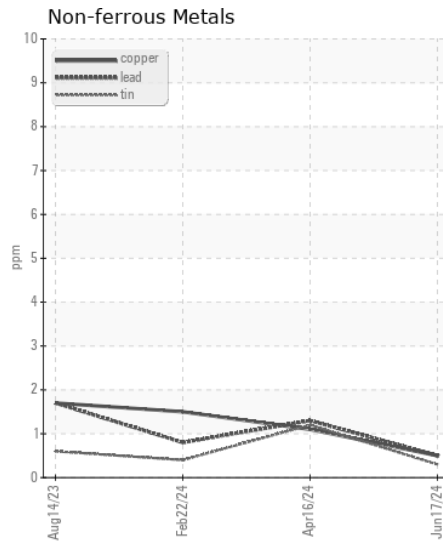
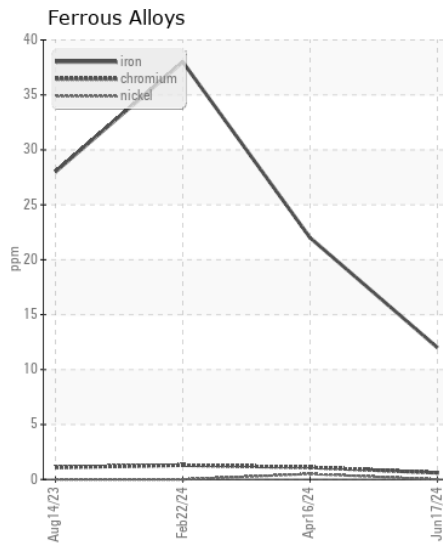
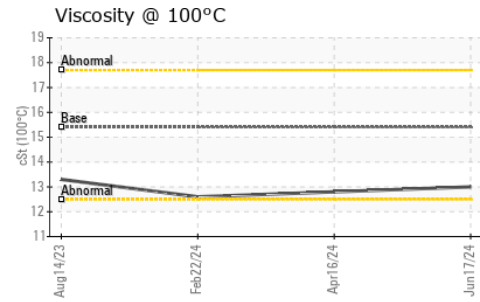
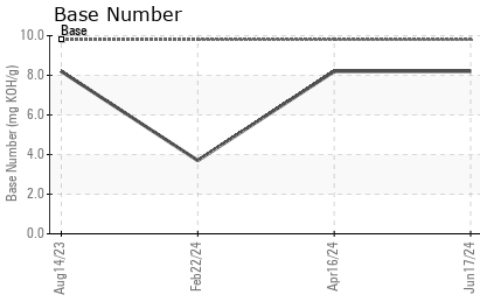
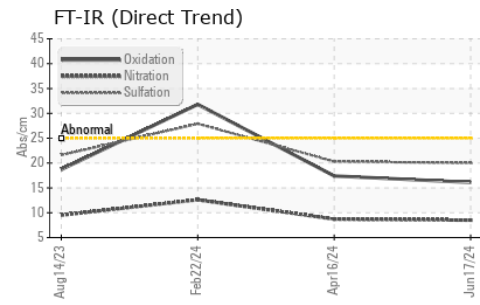
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>4</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	9	18
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		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	<b>0.4</b>	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	8.7	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	20.3	27.9
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>3</b>	6	7
Boron	ppm	ASTM D5185m	0	<b>4</b>	12	5
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>59</b>	90	58
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>963</b>	1315	828
Calcium	ppm	ASTM D5185m	1070	<b>1075</b>	1501	979
Phosphorus	ppm	ASTM D5185m	1150	<b>1036</b>	1435	814
Zinc	ppm	ASTM D5185m	1270	<b>1275</b>	1685	1034
Sulfur	ppm	ASTM D5185m	2060	<b>2910</b>	4308	2357
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	17.4	31.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.2</b>	8.2	▲ 3.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.0</b>	12.8	12.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113028  
**Lab Number** : 06216599  
**Unique Number** : 11089463  
**Test Package** : FLEET

**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Wes Davis

**GFL Environmental - 924 - Madison HC**  
 300 Raemisch Road  
 Waunakee, WI  
 US 53597  
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 T: (608)770-9196  
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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)