



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



Machine Id  
**920114-1475**  
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>GFL0119948</b>	GFL0103532	GFL0103533
Sample Date		Client Info		<b>25 Jun 2024</b>	21 Jun 2024	21 Jun 2024
Machine Age	mls	Client Info		<b>100344</b>	100149	100310
Oil Age	mls	Client Info		<b>92568</b>	92568	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>7</b>	10	61
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	▲ 30
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	14
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	26
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

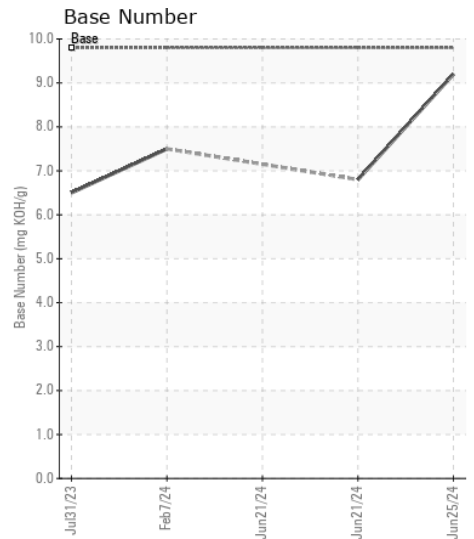
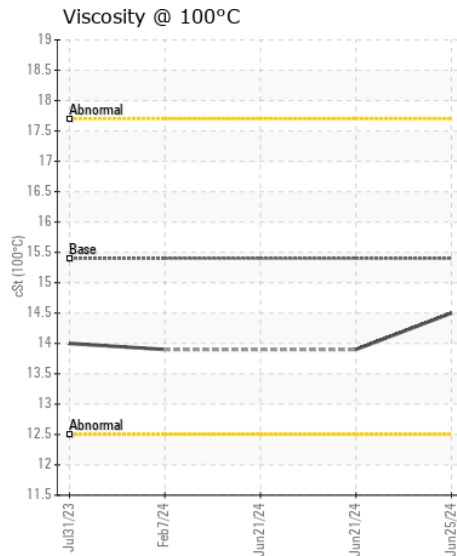
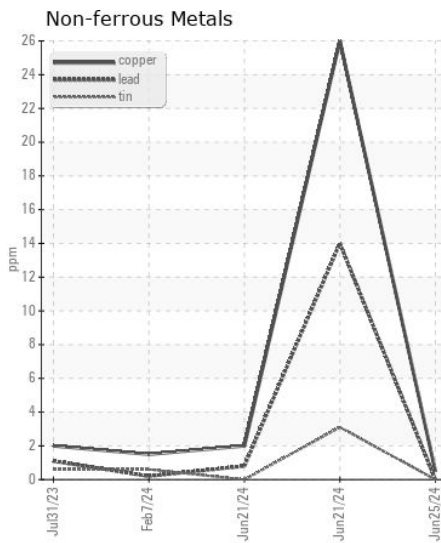
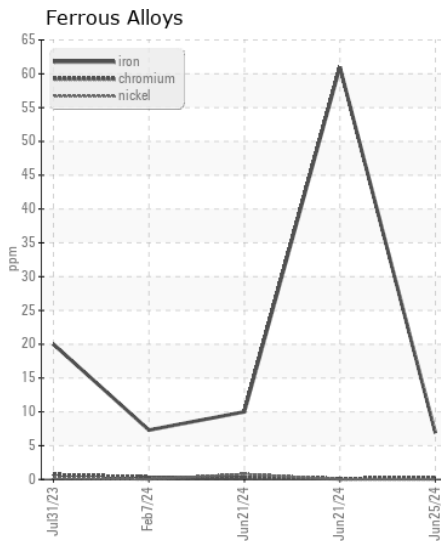
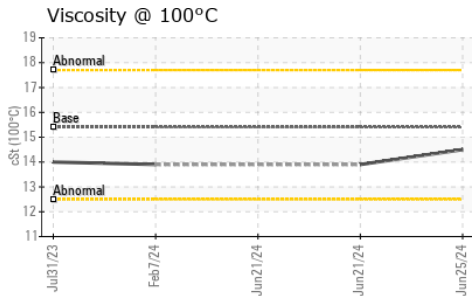
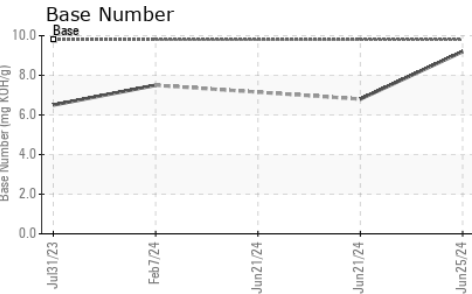
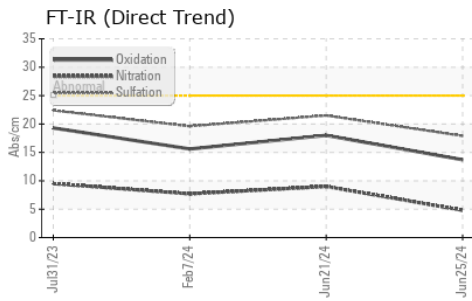
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	<1
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	>4	<b>0.1</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.8</b>	9.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.9</b>	21.5	---
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>1</b>	6	7
Boron	ppm	ASTM D5185m	0	<b>2</b>	3	● 74
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>61</b>	62	● 0
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1069</b>	1052	● 0
Calcium	ppm	ASTM D5185m	1070	<b>1201</b>	1161	● 100
Phosphorus	ppm	ASTM D5185m	1150	<b>1151</b>	1036	● 229
Zinc	ppm	ASTM D5185m	1270	<b>1481</b>	1383	● 5
Sulfur	ppm	ASTM D5185m	2060	<b>4168</b>	3281	1612
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.7</b>	18.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>9.2</b>	6.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.5</b>	13.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0119948  
**Lab Number** : 06223309  
**Unique Number** : 11101506  
**Test Package** : FLEET  
**Received** : 28 Jun 2024  
**Tested** : 01 Jul 2024  
**Diagnosed** : 01 Jul 2024 - Wes Davis

**GFL Environmental - 958A - Chillicothe Wigan**  
 19908 N. State Rd 29  
 Chillicothe, IL  
 US 61523  
 Contact: Bryan Link  
 blink@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: