



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



Machine Id  
**729089-13135**  
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>GFL0103576</b>	GFL0103551	GFL0085342
Sample Date		Client Info		<b>12 Jun 2024</b>	06 Mar 2024	02 Jan 2024
Machine Age	hrs	Client Info		<b>7758</b>	7118	923
Oil Age	hrs	Client Info		<b>7758</b>	0	649
Filter Age	hrs	Client Info		<b>0</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**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>71</b>	24	50
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	1	4
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>150	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

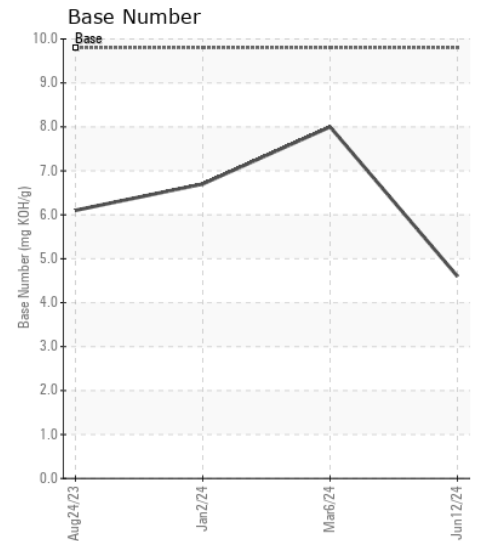
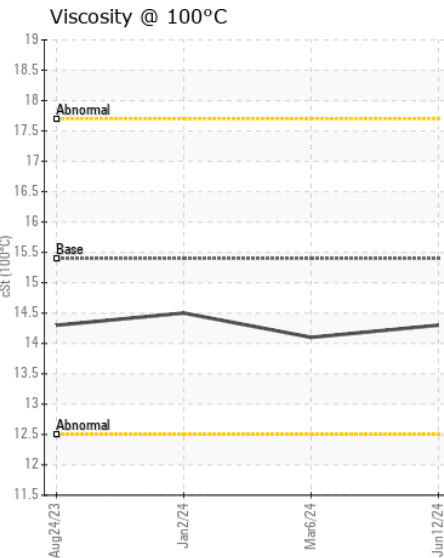
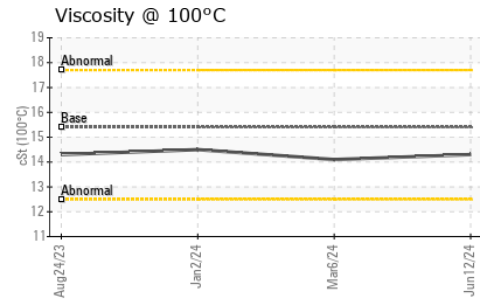
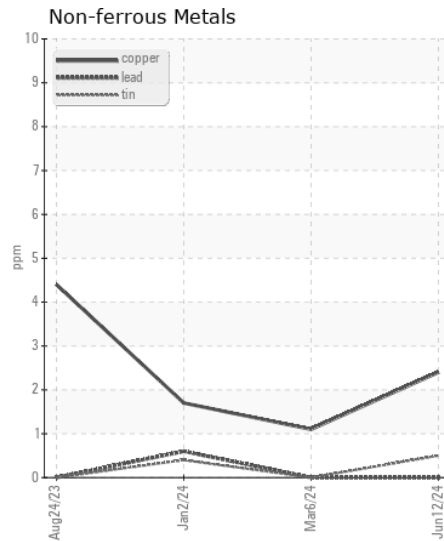
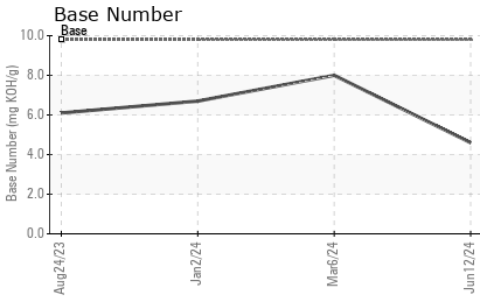
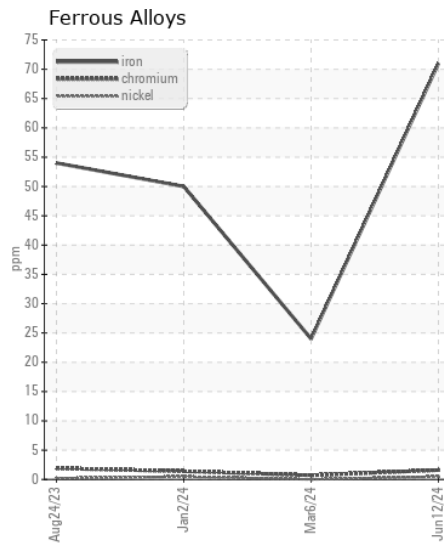
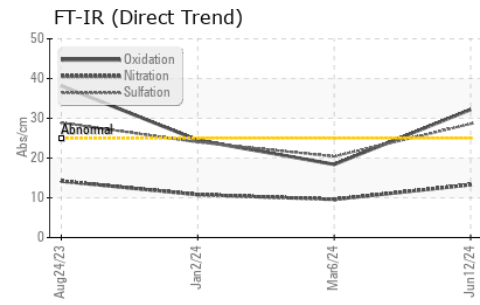
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>15</b>	9	23
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	3
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>1.1</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.3</b>	9.6	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.6</b>	20.4	24.0
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>	5	7
Boron	ppm	ASTM D5185m	0	<b>3</b>	<1	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>65</b>	61	62
Manganese	ppm	ASTM D5185m	0	<b>1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1051</b>	1056	1044
Calcium	ppm	ASTM D5185m	1070	<b>1158</b>	1143	1102
Phosphorus	ppm	ASTM D5185m	1150	<b>1139</b>	1086	1168
Zinc	ppm	ASTM D5185m	1270	<b>1401</b>	1334	1420
Sulfur	ppm	ASTM D5185m	2060	<b>3272</b>	3579	3181
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>32.2</b>	18.4	24.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>4.6</b>	8.0	6.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	14.1	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103576  
**Lab Number** : 06217578  
**Unique Number** : 11090442  
**Test Package** : FLEET

**Received** : 21 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Don Baldrige

**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: