



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



Area  
**GFL035**  
Machine Id  
**934047**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (42 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0116486</b>	GFL0085229	GFL0102301
Sample Date		Client Info		<b>22 May 2024</b>	11 Jan 2024	17 Nov 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>600</b>	600	300
Filter Age	hrs	Client Info		<b>0</b>	600	300
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>32</b>	35	16
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	1	2
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	12	6
Lead	ppm	ASTM D5185m	>40	<b>9</b>	6	0
Copper	ppm	ASTM D5185m	>330	<b>3</b>	5	3
Tin	ppm	ASTM D5185m	>15	<b>1</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

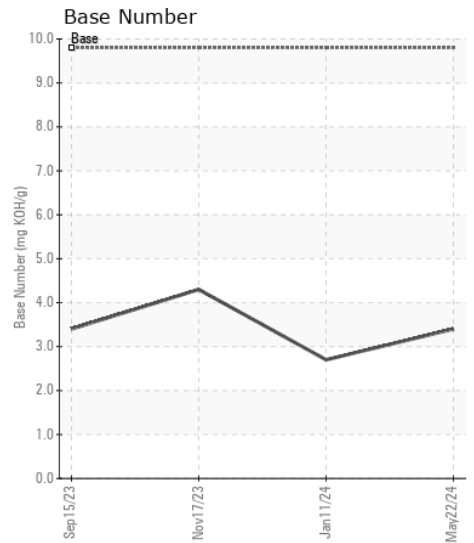
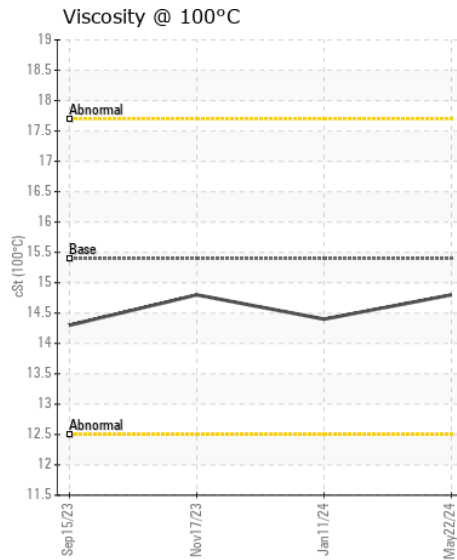
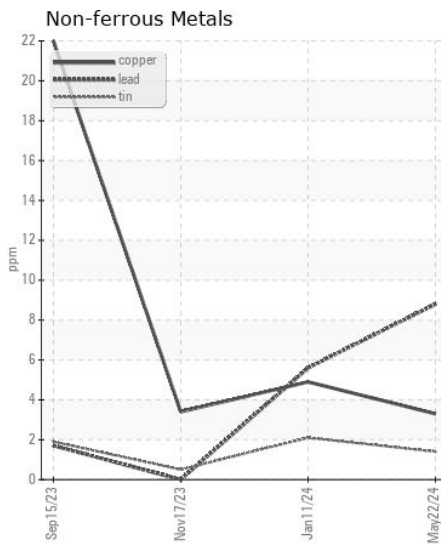
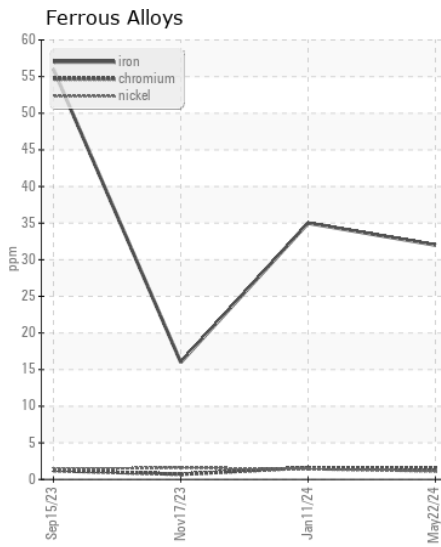
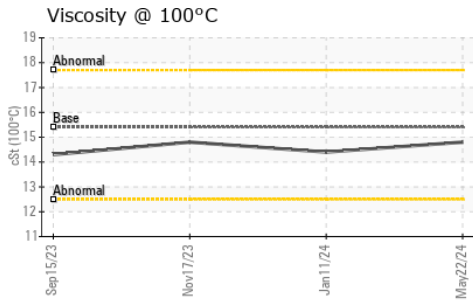
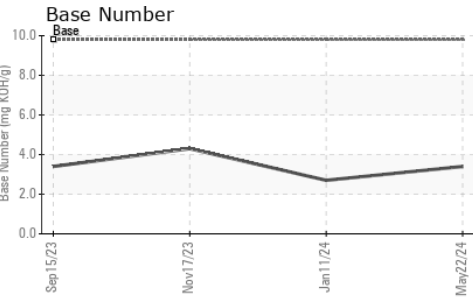
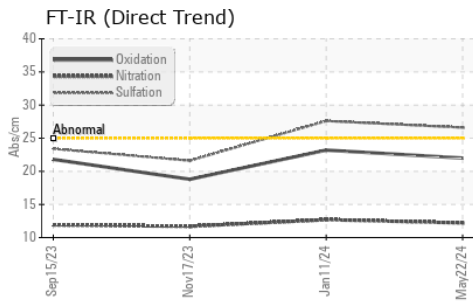
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	11	8
Potassium	ppm	ASTM D5185m	>20	<b>12</b>	21	12
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</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	12.7	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.6</b>	27.6	21.6
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>	10	8
Boron	ppm	ASTM D5185m	0	<b>4</b>	4	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>58</b>	60	51
Manganese	ppm	ASTM D5185m	0	<b>2</b>	3	2
Magnesium	ppm	ASTM D5185m	1010	<b>618</b>	651	564
Calcium	ppm	ASTM D5185m	1070	<b>1810</b>	1656	1495
Phosphorus	ppm	ASTM D5185m	1150	<b>823</b>	812	712
Zinc	ppm	ASTM D5185m	1270	<b>1024</b>	1016	958
Sulfur	ppm	ASTM D5185m	2060	<b>2859</b>	2374	2461
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.0</b>	23.2	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>3.4</b>	▲ 2.7	4.3
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.8</b>	14.4	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0116486  
**Lab Number** : 06191456  
**Unique Number** : 11048208  
**Test Package** : FLEET

**Received** : 24 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 2024 - Angela Borella

**GFL Environmental - 035 - Greensboro**  
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 High Point, NC  
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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)