



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

Machine Id  
**2618C**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (12 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0125715</b>	GFL0112910	GFL0112933
Sample Date		Client Info		<b>16 Jul 2024</b>	07 May 2024	21 Mar 2024
Machine Age	hrs	Client Info		<b>10732</b>	10732	10732
Oil Age	hrs	Client Info		<b>330</b>	331	284
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>5</b>	6	8
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m	>30	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>35	<b>6</b>	0	<1
Tin	ppm	ASTM D5185m	>4	<b>0</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.

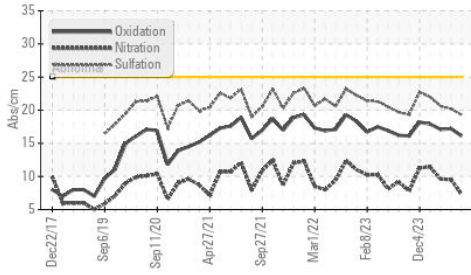
Silicon	ppm	ASTM D5185m	>+100	<b>30</b>	5	9
Potassium	ppm	ASTM D5185m	>20	<b>138</b>	202	261
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	9.5	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.3</b>	20.2	20.6
Silt	scalar	*Visual	NONE	<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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

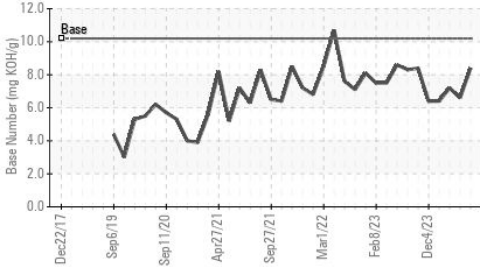
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>20</b>	32	52
Boron	ppm	ASTM D5185m	50	<b>21</b>	4	7
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>47</b>	48	53
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>564</b>	569	567
Calcium	ppm	ASTM D5185m	1510	<b>1455</b>	1584	1605
Phosphorus	ppm	ASTM D5185m	780	<b>772</b>	782	745
Zinc	ppm	ASTM D5185m	870	<b>924</b>	964	978
Sulfur	ppm	ASTM D5185m	2040	<b>2770</b>	2895	2423
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	17.2	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>8.4</b>	6.6	7.2
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.5</b>	14.7	14.6

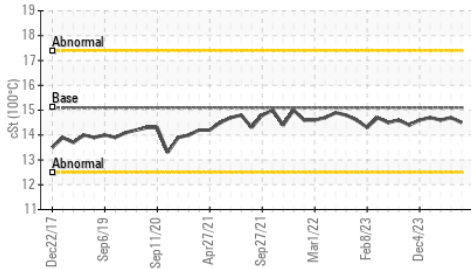
**FT-IR (Direct Trend)**



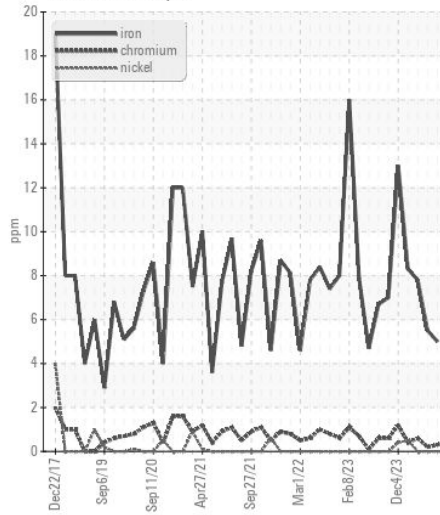
**Base Number**



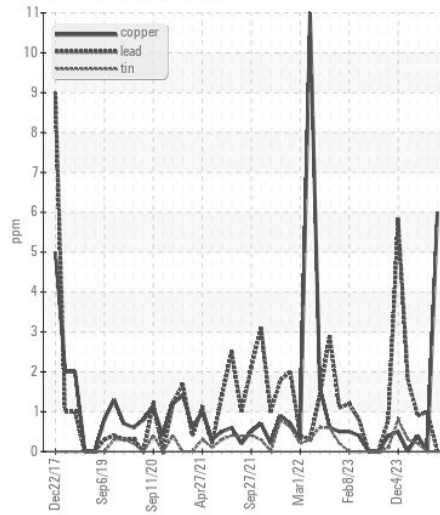
**Viscosity @ 100°C**



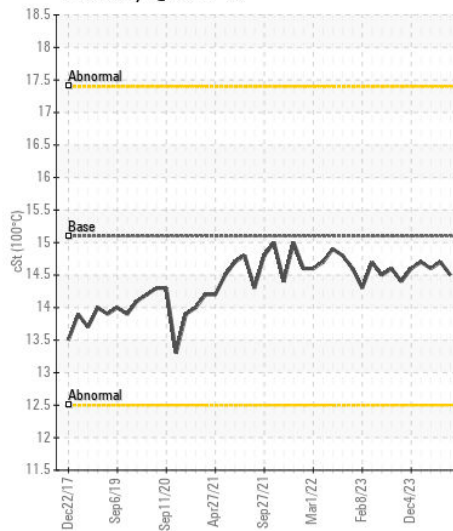
**Ferrous Alloys**



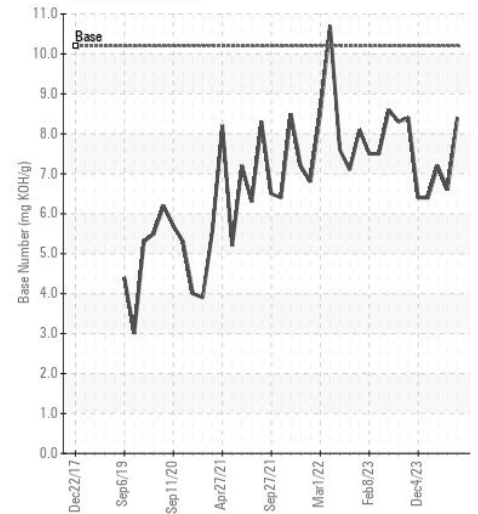
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : GFL0125715

**Lab Number** : 06238778

**Unique Number** : 11127612

**Test Package** : FLEET

**Received** : 17 Jul 2024

**Tested** : 17 Jul 2024

**Diagnosed** : 17 Jul 2024 - Wes Davis

**GFL Environmental - 017 - Durham**

148 Stone Park Court

Durham, NC

US 27703

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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)