



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

Machine Id  
**10505C AUTOCAR ACX**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (28 QTS)**

**RECOMMENDATION**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117442</b>	GFL0089348	GFL0056636
Sample Date		Client Info		<b>15 Apr 2024</b>	21 Jul 2023	09 Mar 2023
Machine Age	hrs	Client Info		<b>25952</b>	25039	23957
Oil Age	hrs	Client Info		<b>1995</b>	1082	2290
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>12</b>	34	45
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	4
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>1</b>	6	10
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>35	<b>0</b>	<1	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
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**

Moderate concentration of visible dirt/debris present in the oil.

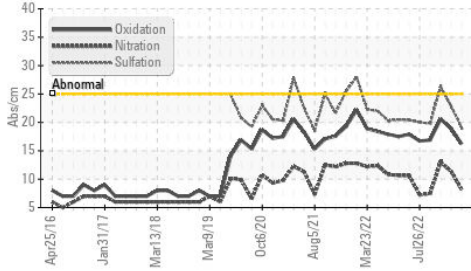
Silicon	ppm	ASTM D5185m	>+100	<b>8</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	7	20
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	11.4	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	22.9	26.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</b>	LIGHT	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**

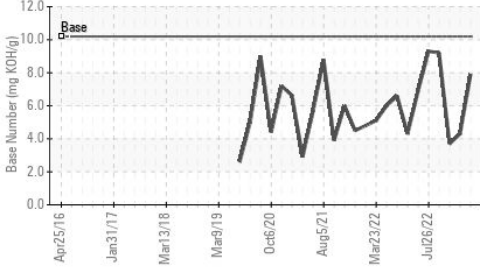
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	8	10
Boron	ppm	ASTM D5185m	50	<b>35</b>	4	5
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>48</b>	58	59
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	560	<b>560</b>	603	617
Calcium	ppm	ASTM D5185m	1510	<b>1549</b>	1741	1692
Phosphorus	ppm	ASTM D5185m	780	<b>773</b>	750	789
Zinc	ppm	ASTM D5185m	870	<b>917</b>	1008	1068
Sulfur	ppm	ASTM D5185m	2040	<b>2726</b>	3014	2833
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.2</b>	18.9	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>7.9</b>	4.3	3.7
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.4</b>	14.8	14.3

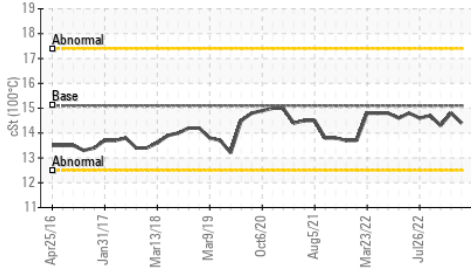
**FT-IR (Direct Trend)**



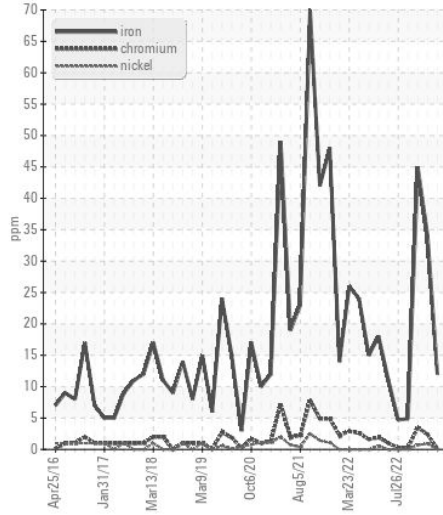
**Base Number**



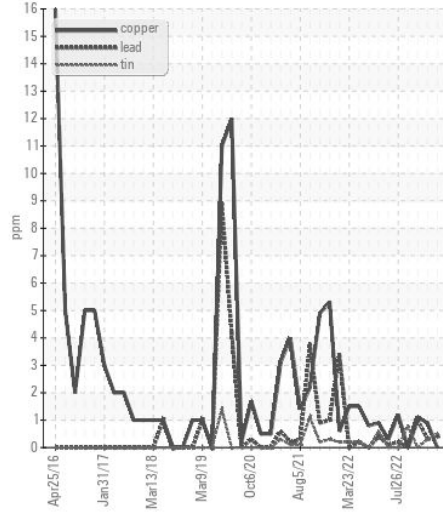
**Viscosity @ 100°C**



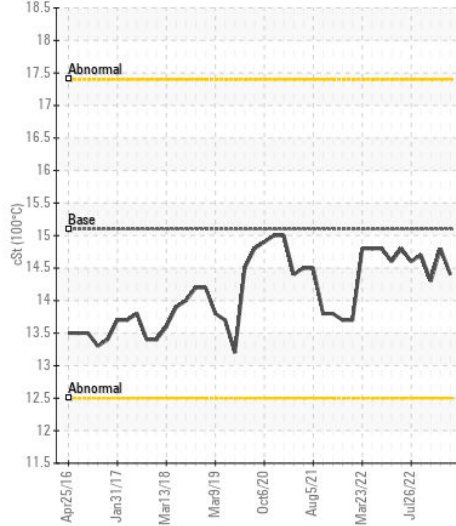
**Ferrous Alloys**



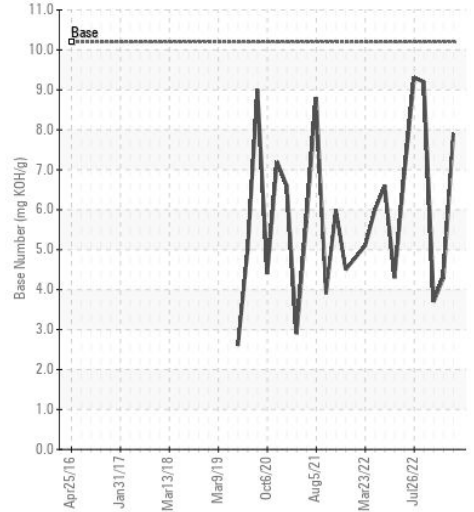
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0117442  
**Lab Number** : 06151692  
**Unique Number** : 10981770  
**Test Package** : FLEET

**GFL Environmental - 001 - Raleigh(CNG)**

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 Garner, NC  
 US 27529

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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)