



# OIL ANALYSIS REPORT

Sample Rating Trend

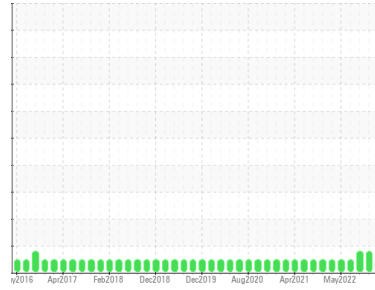
**NORMAL**



Machine Id  
**10517C AUTOCAR ACX**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (28 QTS)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0094742</b>	GFL0087110	GFL0087125
Sample Date	Client Info		<b>31 Jan 2024</b>	09 Aug 2023	17 Jul 2023
Machine Age	hrs	Client Info	<b>23625</b>	22578	22427
Oil Age	hrs	Client Info	<b>1047</b>	2193	2042
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>36</b>	37	46
Chromium	ppm	ASTM D5185m >4	<b>4</b>	4	4
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	1	1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>9</b>	▲ 12	▲ 13
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	2	3
Copper	ppm	ASTM D5185m >35	<b>3</b>	3	3
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>4</b>	5	11
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>54</b>	57	60
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m 560	<b>617</b>	609	649
Calcium	ppm	ASTM D5185m 1510	<b>1633</b>	1665	1836
Phosphorus	ppm	ASTM D5185m 780	<b>790</b>	775	864
Zinc	ppm	ASTM D5185m 870	<b>1003</b>	1034	1093
Sulfur	ppm	ASTM D5185m 2040	<b>2664</b>	3199	3277

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>11</b>	5	13
Sodium	ppm	ASTM D5185m	<b>6</b>	6	8
Potassium	ppm	ASTM D5185m >20	<b>8</b>	13	14

## INFRA-RED

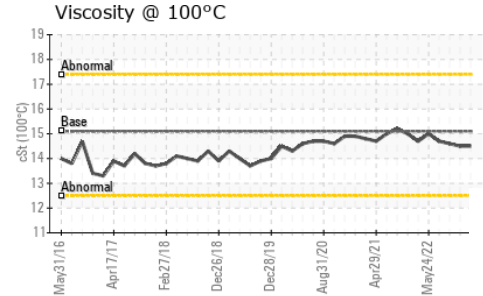
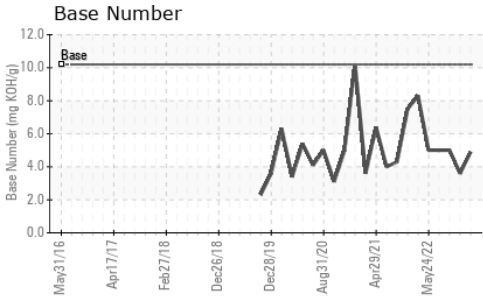
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.8</b>	11.5	11.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.6</b>	23.1	23.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.6</b>	18.3	18.0
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.9</b>	3.6	5.0



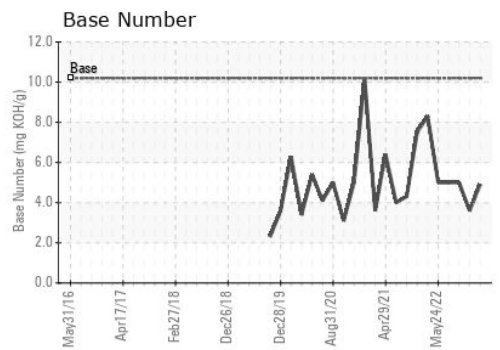
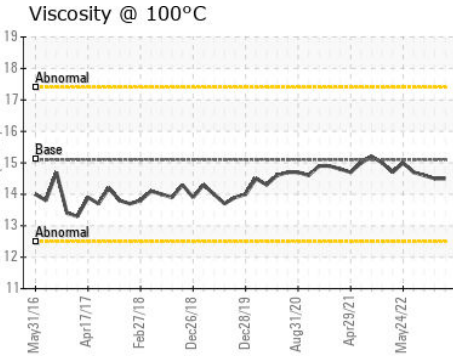
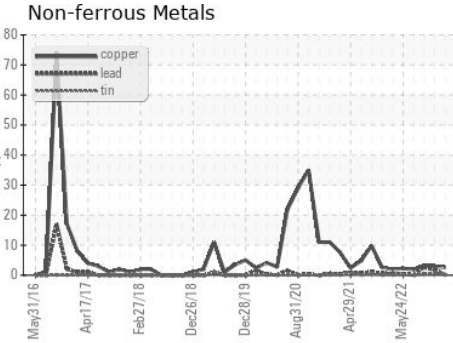
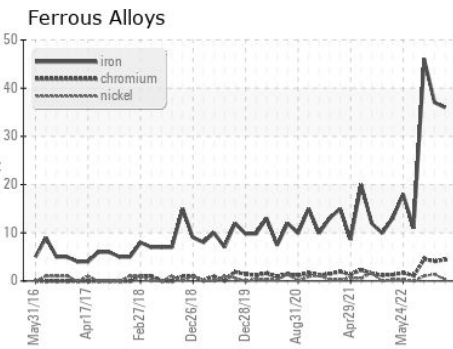
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VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0094742 **Recieved** : 05 Feb 2024  
**Lab Number** : 06079566 **Diagnosed** : 07 Feb 2024  
**Unique Number** : 10861657 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 001 - Raleigh(CNG)**  
 3741 Conquest Drive  
 Garner, NC  
 US 27529  
 Contact: Craig Johnson  
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 T: (919)662-7100  
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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)