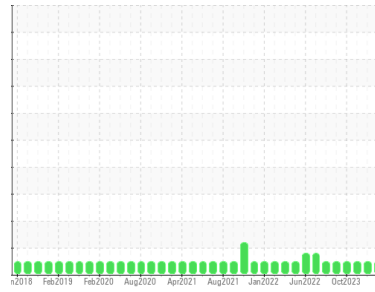




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**3793C AUTOCAR ACX**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (48 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>GFL0117418</b>	GFL0103165	GFL0103241	
Sample Date	Client Info	<b>03 Jul 2024</b>	23 Jan 2024	28 Dec 2023	
Machine Age	hrs	Client Info	<b>17213</b>	16038	15821
Oil Age	hrs	Client Info	<b>1175</b>	217	696
Oil Changed	Client Info	<b>Not Chngd</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## 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>8</b>	8	13
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	1	3
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	1	3
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>35	<b>2</b>	1	4
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	50	<b>24</b>	28	9
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>51</b>	52	53
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>605</b>	566	570
Calcium	ppm	ASTM D5185m	1510	<b>1561</b>	1486	1661
Phosphorus	ppm	ASTM D5185m	780	<b>812</b>	762	687
Zinc	ppm	ASTM D5185m	870	<b>1016</b>	958	1034
Sulfur	ppm	ASTM D5185m	2040	<b>2503</b>	2449	2333

## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	<b>5</b>	8	5
Sodium	ppm	ASTM D5185m		<b>4</b>	1	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	2

## INFRA-RED

method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	7.7	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	19.2	22.8

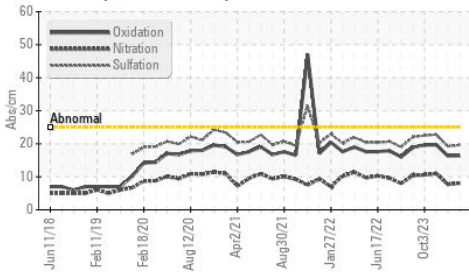
## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	16.3	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>7.4</b>	7.7	4.2

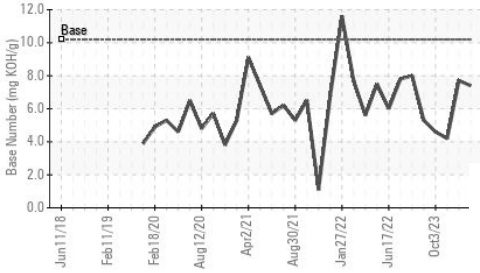


# OIL ANALYSIS REPORT

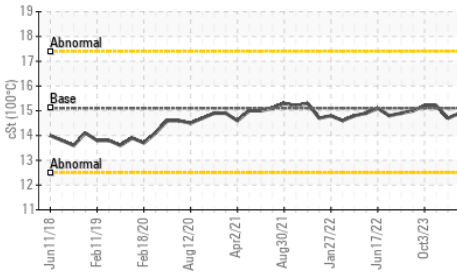
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

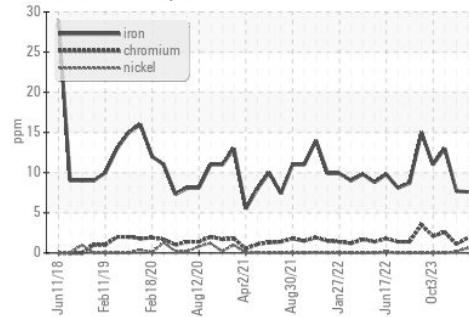


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

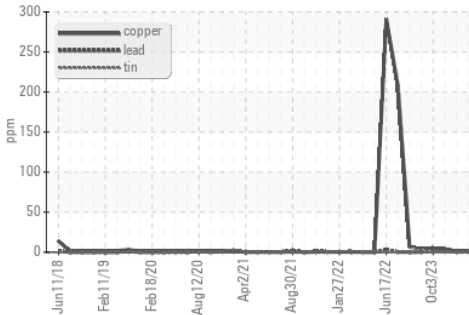
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.7

## GRAPHS

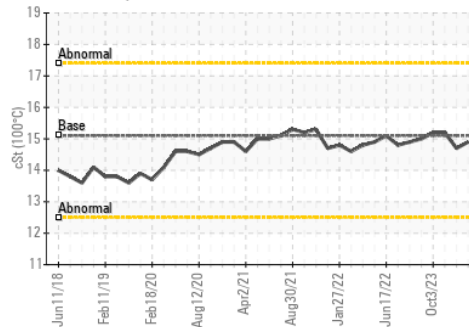
Ferrous Alloys



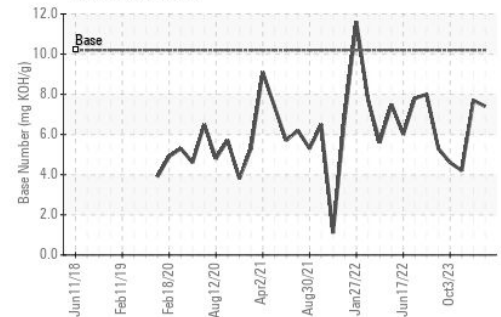
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0117418  
 Lab Number : 06229893  
 Unique Number : 11113386  
 Test Package : FLEET

Received : 08 Jul 2024  
 Tested : 09 Jul 2024  
 Diagnosed : 09 Jul 2024 - Wes Davis

GFL Environmental - 001 - Raleigh(CNG)  
 3741 Conquest Drive  
 Garner, NC  
 US 27529

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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