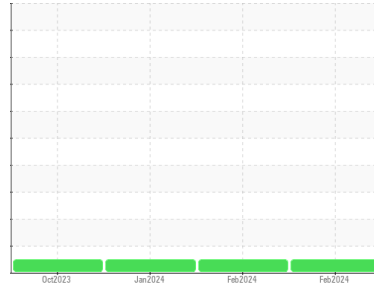




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(THG7557)**  
 Machine Id  
**733028**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Redo oil sample )

### 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>GFL0114460</b>	GFL0103981	GFL0103959
Sample Date	Client Info	<b>24 Feb 2024</b>	08 Feb 2024	11 Jan 2024
Machine Age	hrs	Client Info	1748	1192
Oil Age	hrs	Client Info	1748	1192
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>9</b>	15	16
Chromium	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>1</b>	2	2
Lead	ppm ASTM D5185m >30	<b>&lt;1</b>	0	<1
Copper	ppm ASTM D5185m >35	<b>&lt;1</b>	2	3
Tin	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>13</b>	6	7
Barium	ppm ASTM D5185m 5	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185m 50	<b>50</b>	57	55
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	2
Magnesium	ppm ASTM D5185m 560	<b>636</b>	586	638
Calcium	ppm ASTM D5185m 1510	<b>1774</b>	1618	1545
Phosphorus	ppm ASTM D5185m 780	<b>875</b>	725	762
Zinc	ppm ASTM D5185m 870	<b>1094</b>	977	1039
Sulfur	ppm ASTM D5185m 2040	<b>2830</b>	2338	2544

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>5</b>	6	10
Sodium	ppm ASTM D5185m	<b>6</b>	11	8
Potassium	ppm ASTM D5185m >20	<b>1</b>	2	5

## INFRA-RED

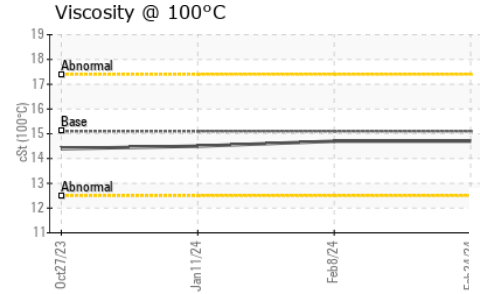
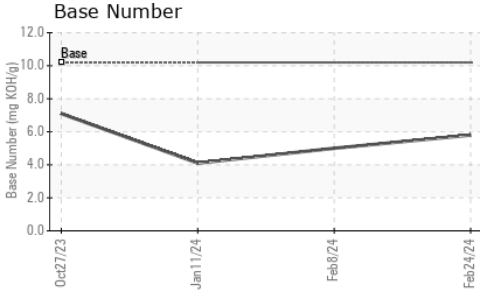
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0.1	0
Nitration	Abs/cm *ASTM D7624 >20	<b>10.2</b>	11.1	11.5
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.0</b>	22.2	21.7

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>17.7</b>	18.3	18.7
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>5.8</b>	5.0	4.1



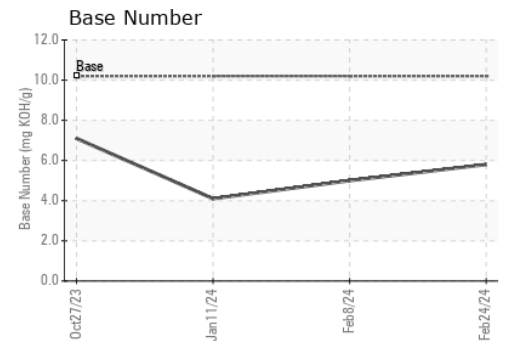
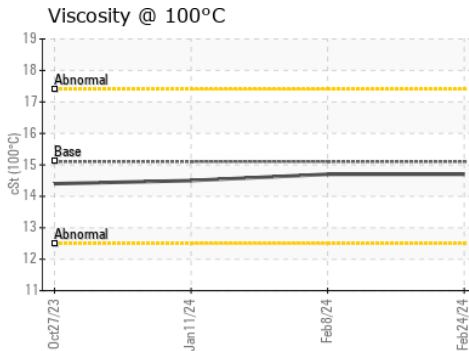
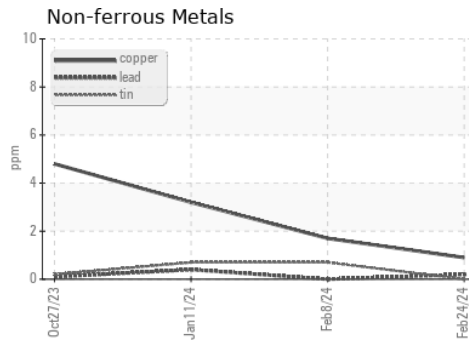
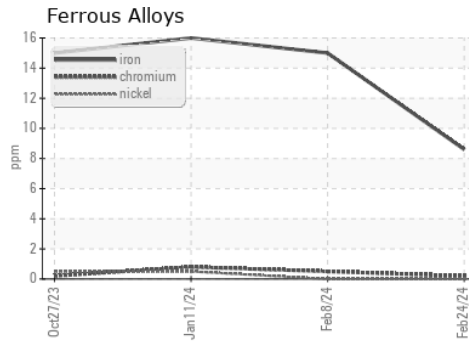
# OIL ANALYSIS REPORT



PARAMETER	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	14.7	14.5

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0114460  
 Lab Number : 06107935  
 Unique Number : 10911432  
 Test Package : FLEET

Received : 04 Mar 2024  
 Tested : 05 Mar 2024  
 Diagnosed : 06 Mar 2024 - Jonathan Hester

GFL Environmental - 865 - East Mount Hauling  
 7213 East Mount Houston Road  
 Houston, TX  
 US 77050  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.com

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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F: