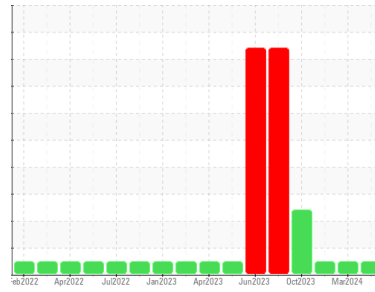




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**749000**  
 Component  
**Natural Gas Engine**  
 Fluid

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

## 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>GFL0121832</b>	GFL0106757	GFL0092052
Sample Date	Client Info	<b>09 Jul 2024</b>	28 Mar 2024	14 Dec 2023
Machine Age	hrs	<b>16103</b>	15505	14860
Oil Age	hrs	<b>600</b>	600	600
Oil Changed	Client Info	<b>Changed</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>10</b>	11	8
Chromium	ppm ASTM D5185m >4	<b>&lt;1</b>	1	<1
Nickel	ppm ASTM D5185m >2	<b>0</b>	<1	0
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>3</b>	2	2
Lead	ppm ASTM D5185m >30	<b>0</b>	<1	1
Copper	ppm ASTM D5185m >35	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185m >4	<b>0</b>	1	0
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>6</b>	12	18
Barium	ppm ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>55</b>	54	52
Manganese	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m 560	<b>535</b>	629	550
Calcium	ppm ASTM D5185m 1510	<b>1641</b>	1651	1541
Phosphorus	ppm ASTM D5185m 780	<b>695</b>	813	734
Zinc	ppm ASTM D5185m 870	<b>926</b>	1067	962
Sulfur	ppm ASTM D5185m 2040	<b>2150</b>	3250	2443

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>3</b>	4	4
Sodium	ppm ASTM D5185m	<b>14</b>	14	18
Potassium	ppm ASTM D5185m >20	<b>10</b>	11	14

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>10.2</b>	9.9	9.1
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.0</b>	20.4	19.4

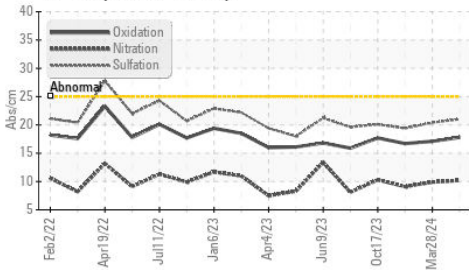
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>17.8</b>	17.1	16.7
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>5.0</b>	5.6	6.0

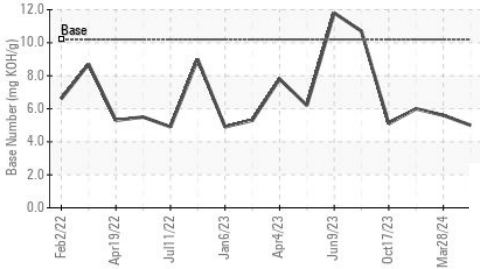


# OIL ANALYSIS REPORT

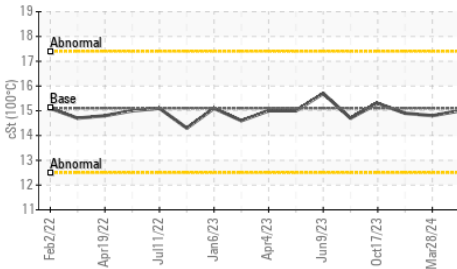
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

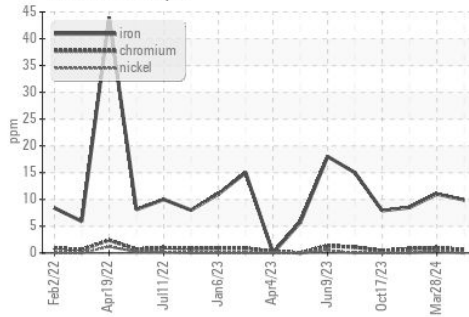


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

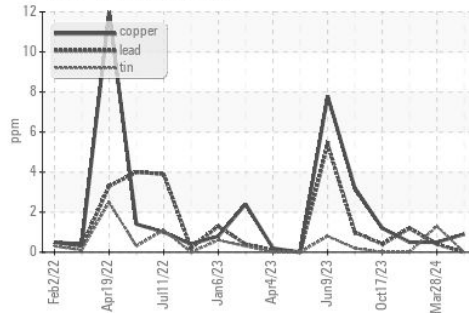
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.0	14.8

## GRAPHS

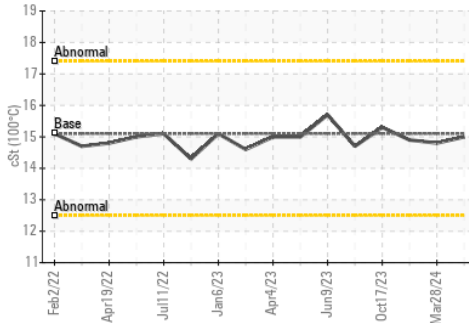
Ferrous Alloys



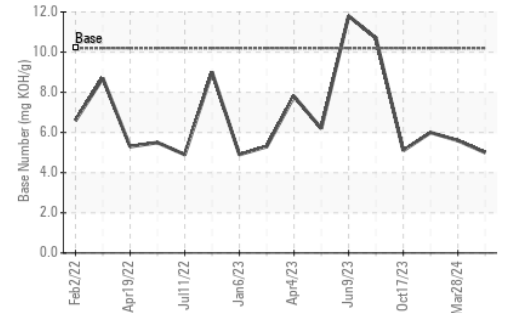
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0121832  
 Lab Number : 06234676  
 Unique Number : 11123510  
 Test Package : FLEET

Received : 12 Jul 2024  
 Tested : 15 Jul 2024  
 Diagnosed : 15 Jul 2024 - Wes Davis

GFL Environmental - 856 - Houston South  
 8515 Highway 6 South  
 Houston, TX  
 US 77083

Contact: Jose Gonzalez  
 jgonzalez2@gflenv.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)

T:  
F: