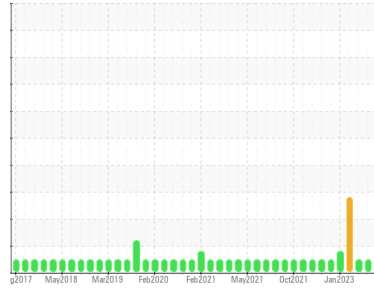




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(YA122730)**

Machine Id  
**2605C**

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>GFL0109699</b>	GFL0092664	GFL0072377
Sample Date	Client Info	<b>19 Mar 2024</b>	28 Nov 2023	12 Jul 2023
Machine Age	hrs	<b>23165</b>	323978	323978
Oil Age	hrs	<b>511</b>	622	535
Oil Changed	Client Info	<b>Changed</b>	Changed	N/A
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>18</b>	11	15
Chromium	ppm ASTM D5185m >4	<b>1</b>	<1	1
Nickel	ppm ASTM D5185m >2	<b>&lt;1</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>2</b>	1	1
Lead	ppm ASTM D5185m >30	<b>2</b>	2	11
Copper	ppm ASTM D5185m >35	<b>1</b>	2	5
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	0
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>24</b>	7	22
Barium	ppm ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>53</b>	51	59
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 560	<b>634</b>	555	697
Calcium	ppm ASTM D5185m 1510	<b>1543</b>	1411	1659
Phosphorus	ppm ASTM D5185m 780	<b>910</b>	691	874
Zinc	ppm ASTM D5185m 870	<b>1037</b>	898	1087
Sulfur	ppm ASTM D5185m 2040	<b>2825</b>	2476	3431

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>8</b>	5	4
Sodium	ppm ASTM D5185m	<b>10</b>	14	10
Potassium	ppm ASTM D5185m >20	<b>8</b>	8	3

## INFRA-RED

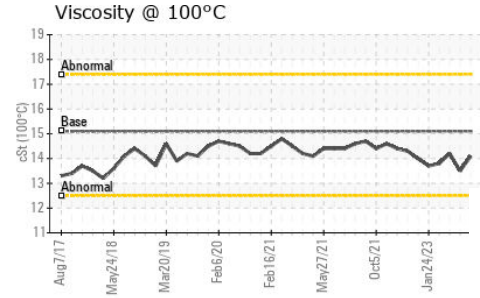
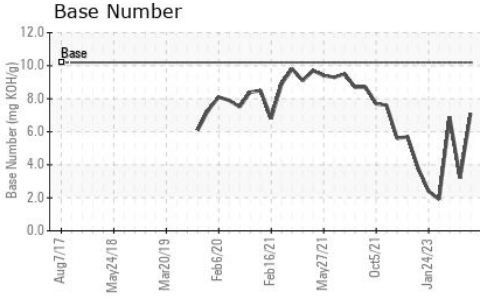
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>8.8</b>	10.9	9.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.5</b>	24.8	21.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>16.5</b>	19.0	17.2
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>7.1</b>	3.2	6.9



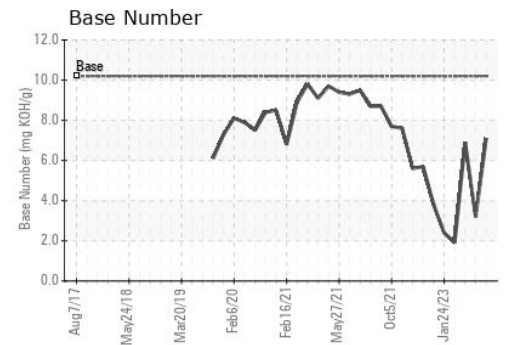
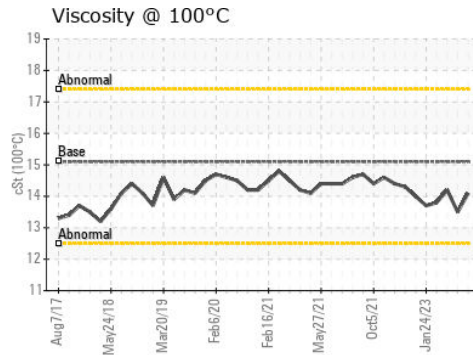
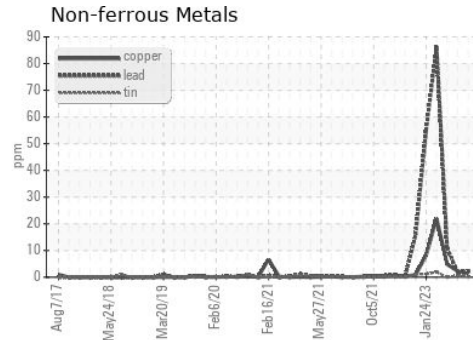
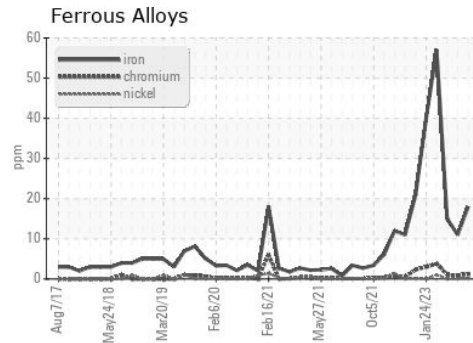
# OIL ANALYSIS REPORT



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	14.1	13.5

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0109699  
 Lab Number : **06126160**  
 Unique Number : 10940311  
 Test Package : FLEET

Received : 22 Mar 2024  
 Tested : 25 Mar 2024  
 Diagnosed : 25 Mar 2024 - Wes Davis

GFL Environmental - 005 - Wilson/Tri-East(CNG)  
 2810 Contentnea Road S  
 Wilson, NC  
 US 27893-8501  
 Contact: SPENCER LIGGON  
 spencer.liggon@gflenv.com  
 T: (800)207-6618  
 F:

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)