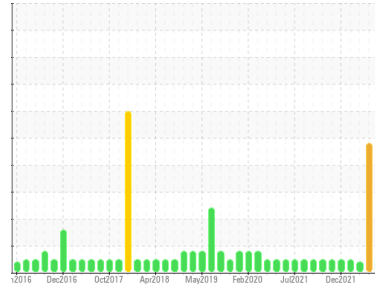




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(YA122715)**

Machine Id  
**3630C**

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>GFL0109755</b>	GFL0092729	GFL0072391
Sample Date	Client Info	<b>11 Mar 2024</b>	08 Nov 2023	24 Jan 2023
Machine Age	hrs	<b>0</b>	24885	24885
Oil Age	hrs	<b>0</b>	198	24452
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Not Changd
Sample Status		<b>NORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>---</b>	0.0	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>23</b>	▲ 47	16
Chromium	ppm ASTM D5185m >4	<b>2</b>	2	2
Nickel	ppm ASTM D5185m >2	<b>0</b>	<1	0
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>3</b>	2	3
Lead	ppm ASTM D5185m >30	<b>0</b>	<1	<1
Copper	ppm ASTM D5185m >35	<b>3</b>	17	8
Tin	ppm ASTM D5185m >4	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>6</b>	51	39
Barium	ppm ASTM D5185m 5	<b>0</b>	7	0
Molybdenum	ppm ASTM D5185m 50	<b>54</b>	52	47
Manganese	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m 560	<b>700</b>	539	528
Calcium	ppm ASTM D5185m 1510	<b>1241</b>	1369	1420
Phosphorus	ppm ASTM D5185m 780	<b>819</b>	814	727
Zinc	ppm ASTM D5185m 870	<b>1021</b>	881	860
Sulfur	ppm ASTM D5185m 2040	<b>2582</b>	2770	2803

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>7</b>	29	10
Sodium	ppm ASTM D5185m	<b>6</b>	4	6
Potassium	ppm ASTM D5185m >20	<b>2</b>	2	0

## INFRA-RED

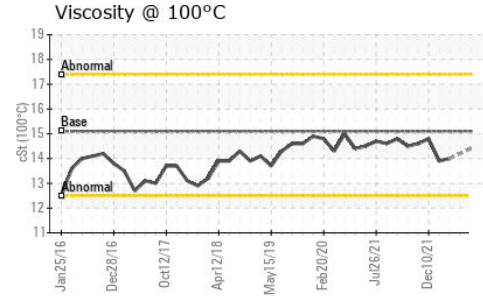
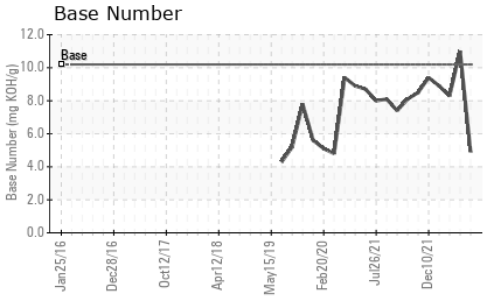
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>9.0</b>	8.1	6.7
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.4</b>	15.1	18.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>15.6</b>	14.8	14.5
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>4.9</b>	11.0	8.3



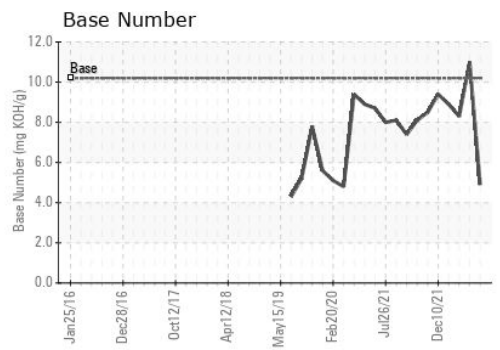
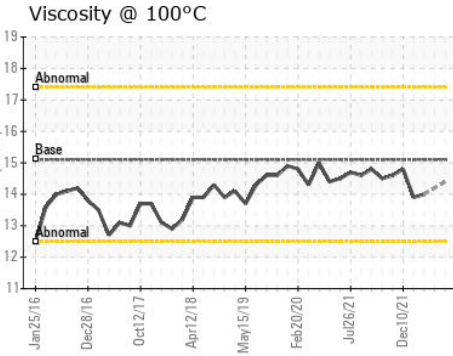
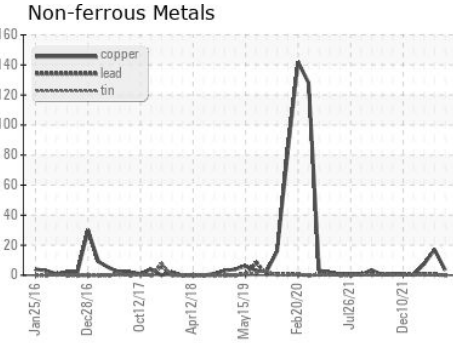
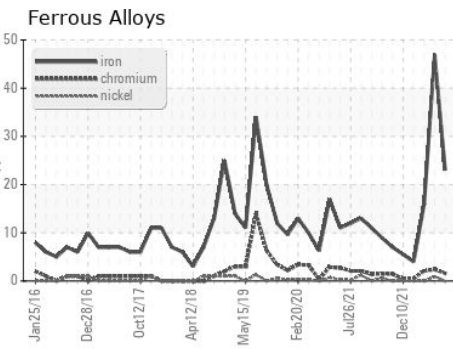
# OIL ANALYSIS REPORT



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	LIGHT ▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	--- 14.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109755 **Received** : 15 Mar 2024  
**Lab Number** : 06119351 **Tested** : 15 Mar 2024  
**Unique Number** : 10928184 **Diagnosed** : 15 Mar 2024 - Wes Davis  
**Test Package** : FLEET

**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)