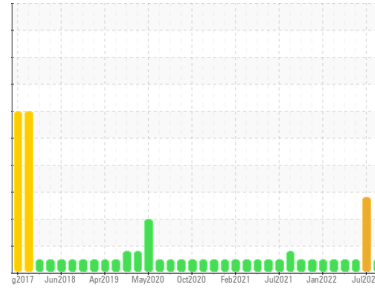




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**10775C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (30 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>GFL0081023</b>	GFL0053631	GFL0037751	
Sample Date	Client Info	<b>04 Aug 2023</b>	20 Jul 2022	31 Mar 2022	
Machine Age	hrs	Client Info	<b>13635</b>	13296	12462
Oil Age	hrs	Client Info	<b>600</b>	600	589
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	ABNORMAL	NORMAL	

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>17</b>	▲ 62	17
Chromium	ppm	ASTM D5185m >4	<b>1</b>	▲ 6	2
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>4</b>	4	3
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	13	2
Copper	ppm	ASTM D5185m >35	<b>1</b>	2	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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>17</b>	6	23
Barium	ppm	ASTM D5185m 5	<b>8</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>50</b>	81	116
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m 560	<b>733</b>	595	650
Calcium	ppm	ASTM D5185m 1510	<b>1335</b>	1557	1465
Phosphorus	ppm	ASTM D5185m 780	<b>712</b>	682	683
Zinc	ppm	ASTM D5185m 870	<b>908</b>	921	836
Sulfur	ppm	ASTM D5185m 2040	<b>2370</b>	2656	2194

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	<b>15</b>	14	17
Sodium	ppm	ASTM D5185m	<b>6</b>	11	6
Potassium	ppm	ASTM D5185m >20	<b>5</b>	0	3

## INFRA-RED

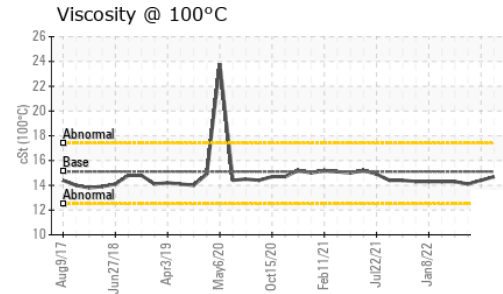
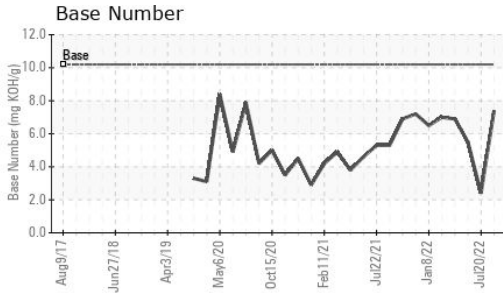
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.9</b>	13.0	8.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.4</b>	27.8	22.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.5</b>	24.2	15.3
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>7.4</b>	▲ 2.4	5.5



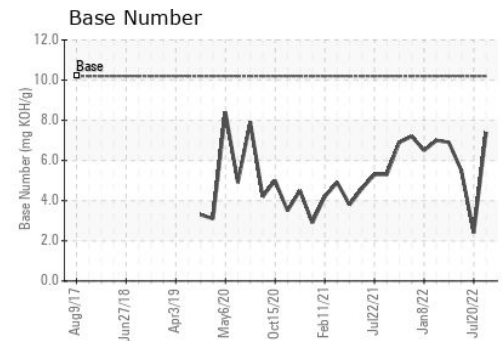
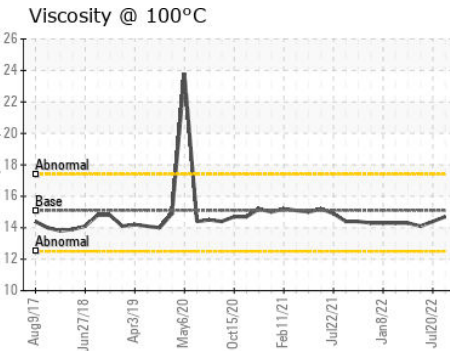
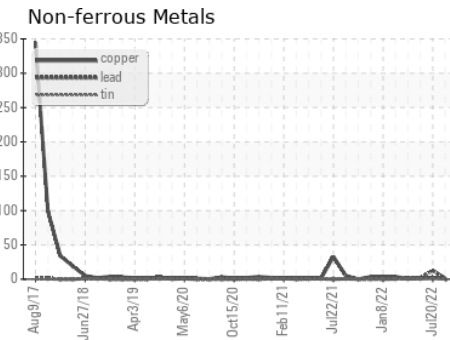
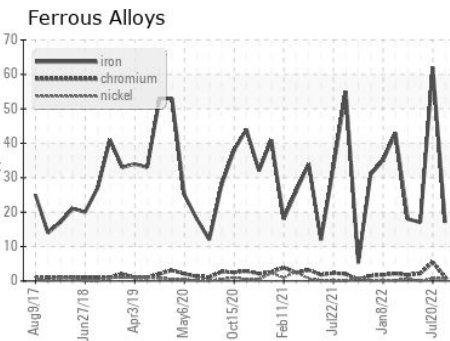
# OIL ANALYSIS REPORT



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	14.7	14.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0081023 **Received** : 11 Aug 2023  
**Lab Number** : 05922045 **Diagnosed** : 12 Aug 2023  
**Unique Number** : 10601992 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 030 - Conway Myrtle Beach**  
 3010 HWY 378  
 Conway, SC  
 US 29527  
**Contact: CHET STROSCHINE**  
 cstroschine@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: