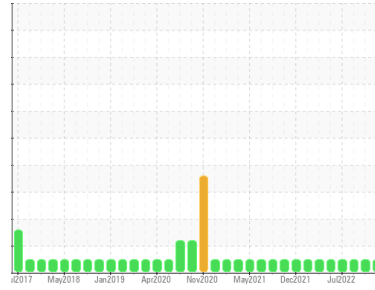




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**10765C**

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>GFL0070779</b>	GFL0049145	GFL0058582
Sample Date	Client Info		<b>14 Jun 2023</b>	26 Jan 2023	09 Oct 2022
Machine Age	hrs	Client Info	<b>15363</b>	14261	13750
Oil Age	hrs	Client Info	<b>600</b>	600	0
Oil Changed		Client Info	<b>Changed</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>22</b>	15	28
Chromium	ppm	ASTM D5185m >4	<b>4</b>	2	3
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>9</b>	2	3
Lead	ppm	ASTM D5185m >30	<b>9</b>	1	2
Copper	ppm	ASTM D5185m >35	<b>3</b>	<1	<1
Tin	ppm	ASTM D5185m >4	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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>10</b>	7	5
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>66</b>	51	54
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m 560	<b>820</b>	530	527
Calcium	ppm	ASTM D5185m 1510	<b>2061</b>	1598	1591
Phosphorus	ppm	ASTM D5185m 780	<b>984</b>	643	651
Zinc	ppm	ASTM D5185m 870	<b>1343</b>	915	910
Sulfur	ppm	ASTM D5185m 2040	<b>3374</b>	2436	2787

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>18</b>	4	7
Sodium	ppm	ASTM D5185m	<b>12</b>	8	8
Potassium	ppm	ASTM D5185m >20	<b>3</b>	0	0

## INFRA-RED

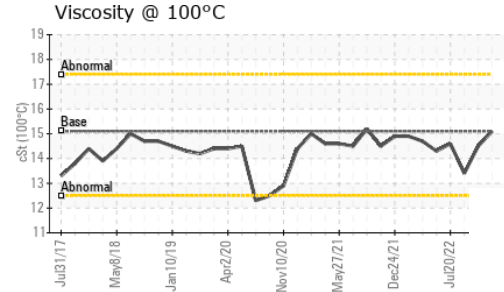
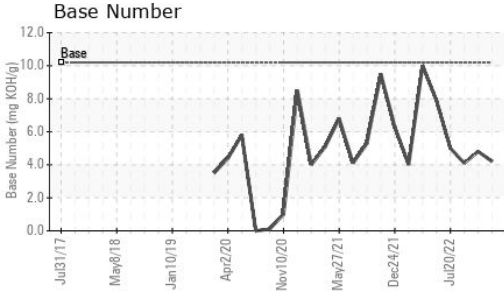
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.8</b>	12.0	11.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>27.0</b>	21.6	24.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>22.6</b>	17.6	19.8
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.2</b>	4.8	4.1



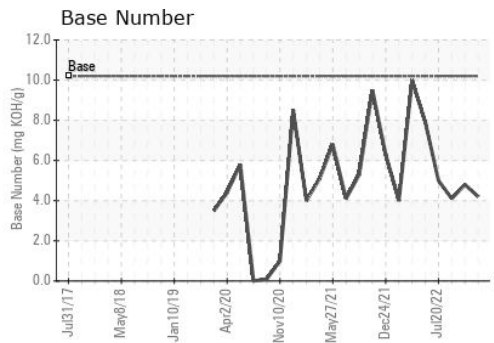
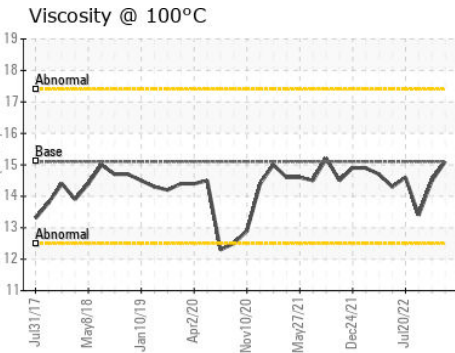
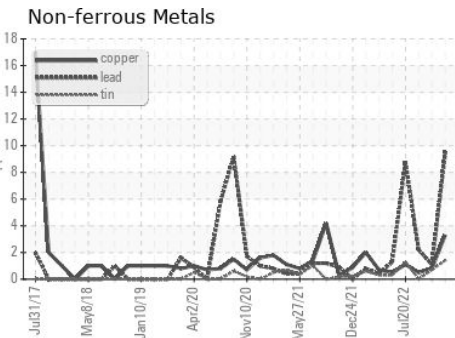
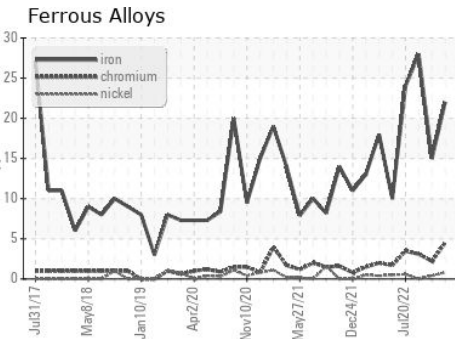
# OIL ANALYSIS REPORT



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	14.5	13.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0070779 **Received** : 15 Jun 2023  
**Lab Number** : 05874325 **Diagnosed** : 16 Jun 2023  
**Unique Number** : 10519428 **Diagnostician** : Don Baldrige  
**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)