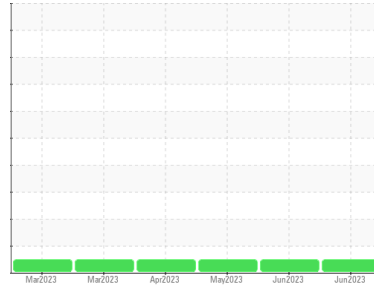




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**733006**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### 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	history 1	history 2
Sample Number	Client Info	<b>GFL0084745</b>	GFL0084728	GFL0078120
Sample Date	Client Info	<b>20 Jun 2023</b>	15 Jun 2023	02 May 2023
Machine Age	mls Client Info	<b>18232</b>	17825	1379
Oil Age	mls Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	Not Changd	Not Changd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185m	>50	<b>7</b>	8	5
Chromium ppm ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel ppm ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium ppm ASTM D5185m		<b>0</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>0</b>	<1	0
Copper ppm ASTM D5185m	>35	<b>&lt;1</b>	1	<1
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	history 1	history 2
Boron ppm ASTM D5185m	50	<b>15</b>	14	28
Barium ppm ASTM D5185m	5	<b>0</b>	0	0
Molybdenum ppm ASTM D5185m	50	<b>53</b>	52	49
Manganese ppm ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium ppm ASTM D5185m	560	<b>609</b>	604	600
Calcium ppm ASTM D5185m	1510	<b>1650</b>	1685	1548
Phosphorus ppm ASTM D5185m	780	<b>746</b>	726	755
Zinc ppm ASTM D5185m	870	<b>1000</b>	991	936
Sulfur ppm ASTM D5185m	2040	<b>2997</b>	2956	2914

### CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185m	>+100	<b>4</b>	6	4
Sodium ppm ASTM D5185m		<b>5</b>	6	3
Potassium ppm ASTM D5185m	>20	<b>&lt;1</b>	<1	<1

### INFRA-RED

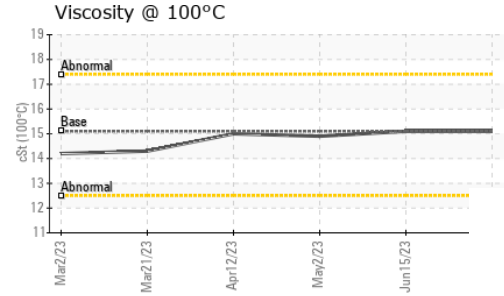
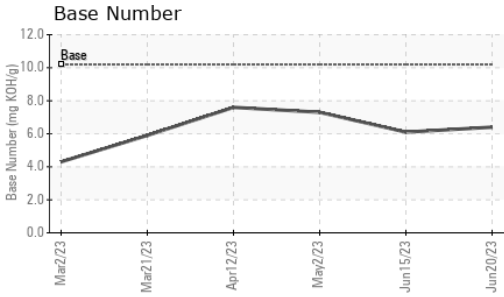
method	limit/base	current	history 1	history 2
Soot % *ASTM D7844		<b>0.1</b>	0.1	0
Nitration Abs/cm *ASTM D7624	>20	<b>10.3</b>	10.5	7.5
Sulfation Abs/.1mm *ASTM D7415	>30	<b>21.2</b>	21.2	17.3

### FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation Abs/.1mm *ASTM D7414	>25	<b>18.2</b>	18.3	15.6
Base Number (BN) mg KOH/g ASTM D2896	10.2	<b>6.4</b>	6.1	7.3



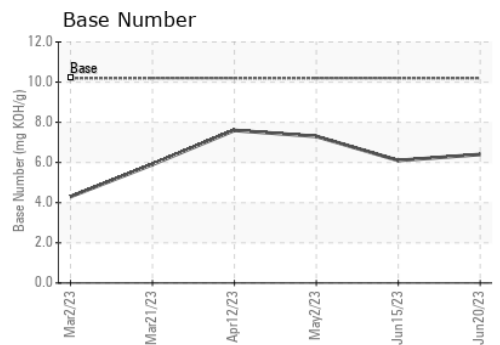
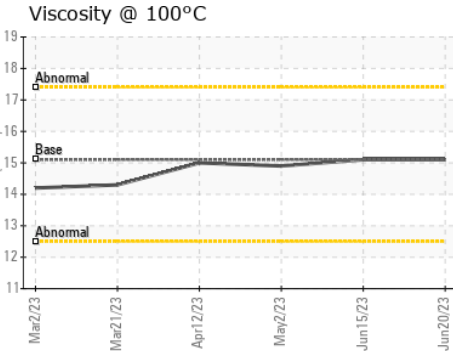
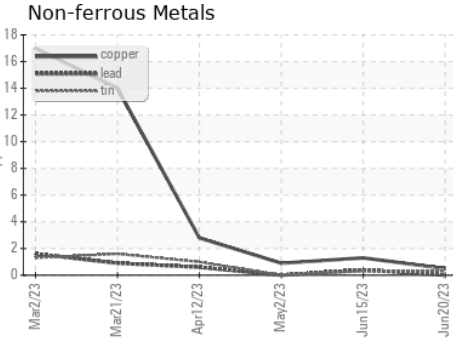
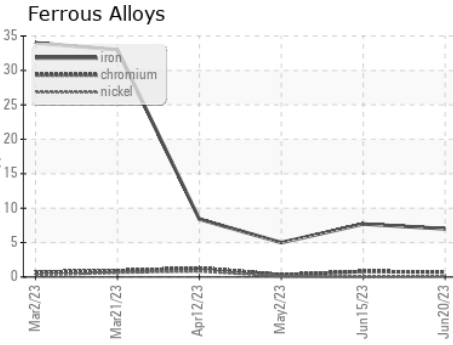
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.1	15.1	14.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0084745 **Received** : 27 Jun 2023  
**Lab Number** : 05884936 **Diagnosed** : 30 Jun 2023  
**Unique Number** : 10535419 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: KEITH ROWALD  
 krowald@gflenv.com  
 T: (303)641-3906  
 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)