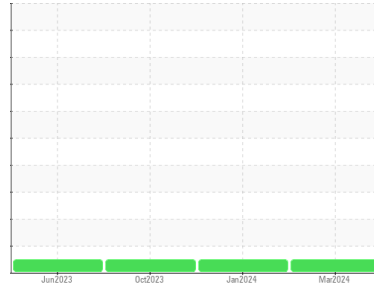




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(TDG4478)**  
 Machine Id  
**834004**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (32 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>GFL0106814</b>	GFL0092144	GFL0084618
Sample Date	Client Info	<b>12 Mar 2024</b>	08 Jan 2024	27 Oct 2023
Machine Age	hrs	<b>2347</b>	17288	11754
Oil Age	hrs	<b>17288</b>	600	0
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
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>8</b>	8	14
Chromium	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	2	<1
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m >9	<b>10</b>	10	4
Lead	ppm ASTM D5185m >30	<b>2</b>	<1	1
Copper	ppm ASTM D5185m >35	<b>2</b>	1	4
Tin	ppm ASTM D5185m >4	<b>1</b>	1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>5</b>	2	6
Barium	ppm ASTM D5185m 0	<b>0</b>	0	4
Molybdenum	ppm ASTM D5185m 60	<b>53</b>	49	57
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	1	2
Magnesium	ppm ASTM D5185m 1010	<b>493</b>	529	584
Calcium	ppm ASTM D5185m 1070	<b>1507</b>	1440	1477
Phosphorus	ppm ASTM D5185m 1150	<b>604</b>	628	714
Zinc	ppm ASTM D5185m 1270	<b>910</b>	928	941
Sulfur	ppm ASTM D5185m 2060	<b>2313</b>	2328	2559

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>5</b>	5	10
Sodium	ppm ASTM D5185m	<b>6</b>	4	4
Potassium	ppm ASTM D5185m >20	<b>38</b>	37	26

## INFRA-RED

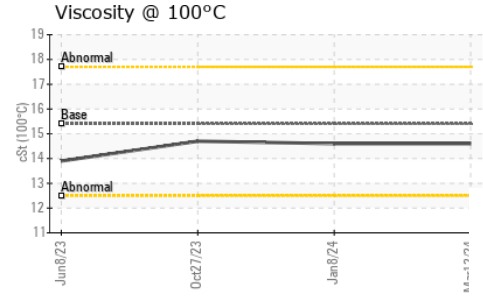
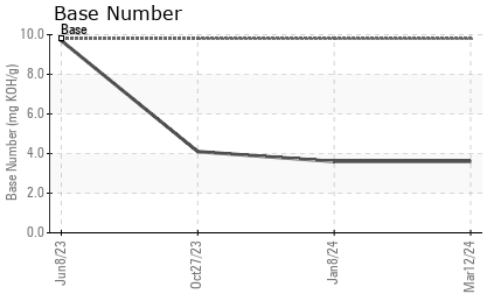
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm *ASTM D7624 >20	<b>11.1</b>	11.1	10.9
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>22.0</b>	22.0	22.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>18.7</b>	18.6	19.0
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>3.6</b>	3.6	4.1



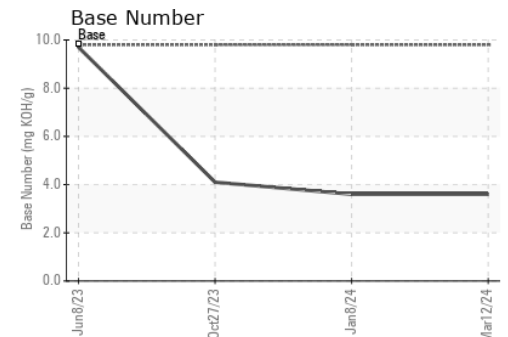
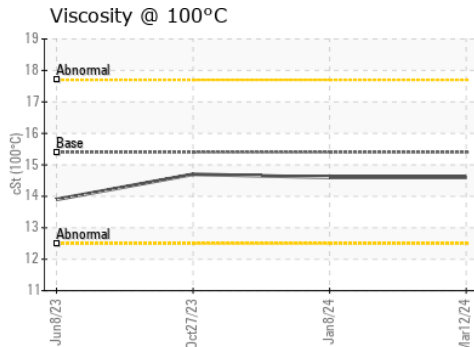
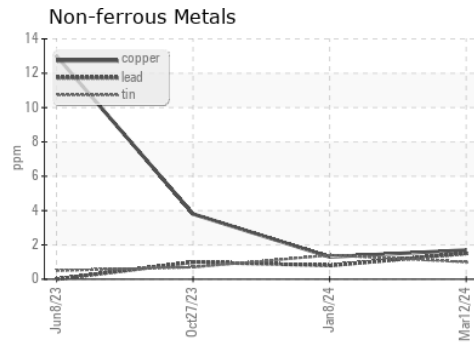
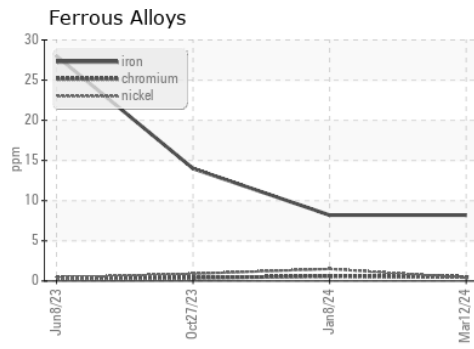
# OIL ANALYSIS REPORT



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	15.4	<b>14.6</b>	14.6	14.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0106814  
**Lab Number** : **06116988**  
**Unique Number** : 10925821  
**Test Package** : FLEET  
**Received** : 13 Mar 2024  
**Tested** : 14 Mar 2024  
**Diagnosed** : 14 Mar 2024 - Don Baldrige

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: Jose Gonzalez  
 jgonzalez2@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)