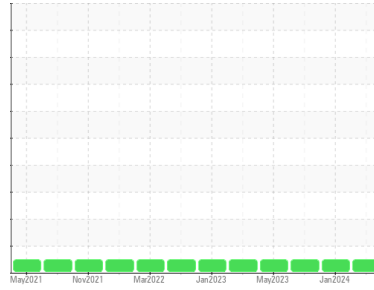




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(P1966C)**  
 Machine Id  
**428055-402384**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

### 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>GFL0092568</b>	GFL0092589	GFL0092575
Sample Date	Client Info	<b>15 Apr 2024</b>	03 Jan 2024	13 Sep 2023
Machine Age	hrs	<b>14443</b>	13902	13359
Oil Age	hrs	<b>600</b>	600	600
Oil Changed	Client Info	<b>Changed</b>	Oil Added	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >165	<b>5</b>	11	3
Chromium	ppm ASTM D5185m >5	<b>0</b>	<1	<1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m >2	<b>0</b>	0	<1
Silver	ppm ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>2</b>	4	1
Lead	ppm ASTM D5185m >150	<b>&lt;1</b>	3	<1
Copper	ppm ASTM D5185m >90	<b>0</b>	<1	<1
Tin	ppm ASTM D5185m >5	<b>&lt;1</b>	<1	1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	<1

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>2</b>	4	3
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 60	<b>58</b>	62	61
Manganese	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m 1010	<b>933</b>	901	975
Calcium	ppm ASTM D5185m 1070	<b>1053</b>	1128	1209
Phosphorus	ppm ASTM D5185m 1150	<b>1087</b>	1041	1081
Zinc	ppm ASTM D5185m 1270	<b>1263</b>	1296	1295
Sulfur	ppm ASTM D5185m 2060	<b>3479</b>	3021	3841

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >35	<b>3</b>	4	5
Sodium	ppm ASTM D5185m	<b>1</b>	4	2
Potassium	ppm ASTM D5185m >20	<b>4</b>	8	4

### INFRA-RED

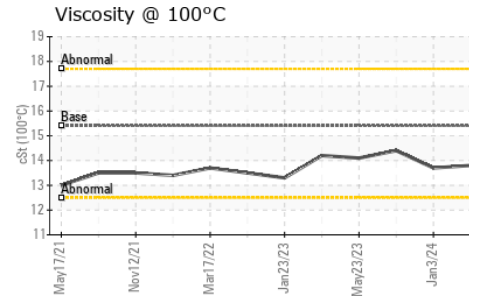
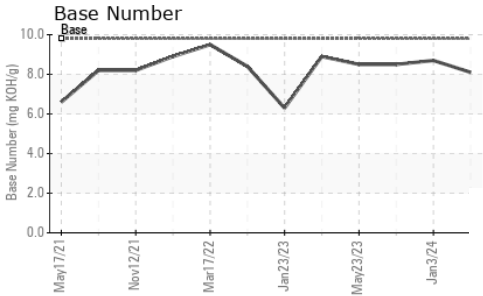
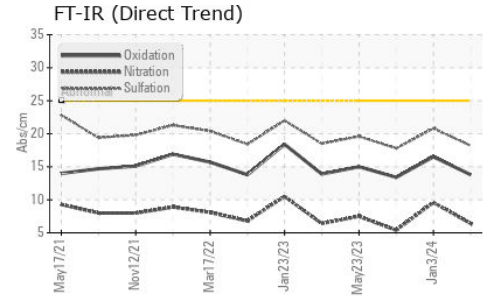
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >7.5	<b>0.3</b>	0.5	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>6.4</b>	9.6	5.4
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.2</b>	20.8	17.8

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.8</b>	16.5	13.4
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>8.1</b>	8.7	8.5



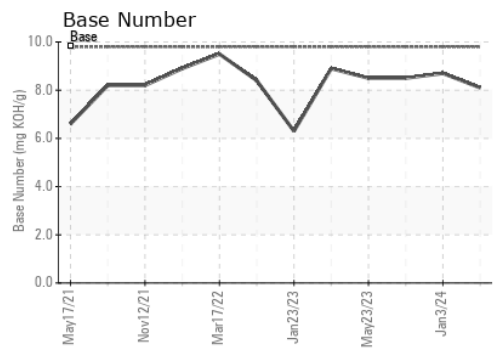
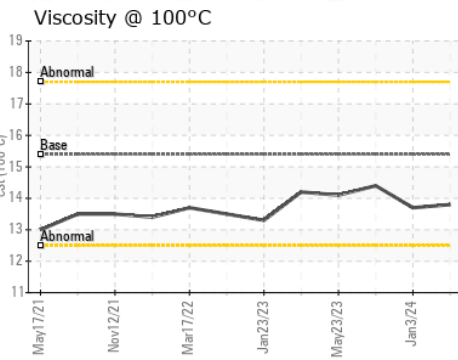
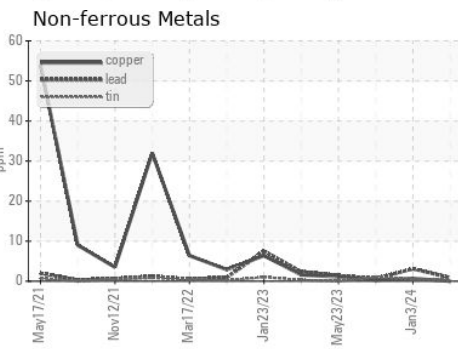
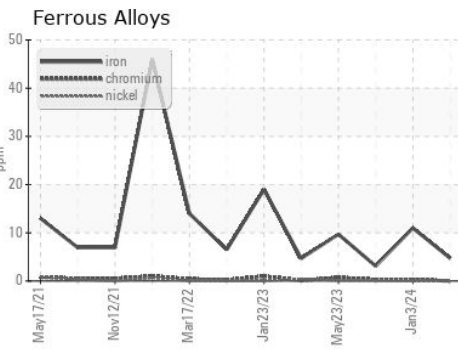
# OIL ANALYSIS REPORT



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	>0.2	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>13.8</b>	13.7	14.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0092568      **Received** : 25 Apr 2024  
**Lab Number** : **06160157**      **Tested** : 26 Apr 2024  
**Unique Number** : 10995580      **Diagnosed** : 26 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 885 - Orlando**  
 1263 W Landstreet Rd  
 Orlando, FL  
 US 32824  
 Contact: Brian Bou Diaz  
 bboudiaz@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)