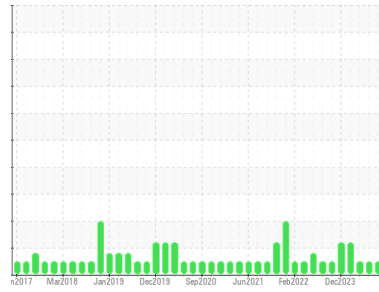




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**3729**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (600 GAL)**

## 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>GFL0118658</b>	GFL0118642	GFL0100267
Sample Date	Client Info		<b>07 May 2024</b>	15 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info	<b>18320</b>	18318	0
Oil Age	hrs	Client Info	<b>200</b>	200	600
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	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 >75	<b>8</b>	9	5
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185m >4	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m >15	<b>4</b>	2	3
Lead	ppm	ASTM D5185m >25	<b>0</b>	1	0
Copper	ppm	ASTM D5185m >100	<b>6</b>	4	0
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>2</b>	<1	2
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 60	<b>59</b>	62	59
Manganese	ppm	ASTM D5185m 0	<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>947</b>	913	947
Calcium	ppm	ASTM D5185m 1070	<b>1026</b>	1057	1000
Phosphorus	ppm	ASTM D5185m 1150	<b>1043</b>	1107	1028
Zinc	ppm	ASTM D5185m 1270	<b>1236</b>	1182	1264
Sulfur	ppm	ASTM D5185m 2060	<b>3595</b>	3478	3142

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	6	5
Sodium	ppm	ASTM D5185m	<b>48</b>	60	43
Potassium	ppm	ASTM D5185m >20	<b>5</b>	5	3

## INFRA-RED

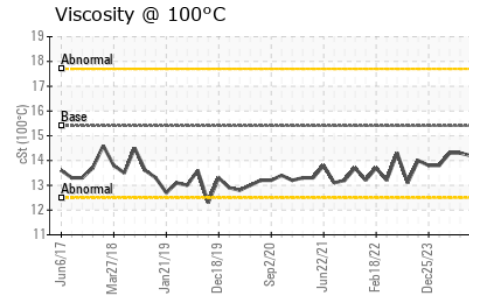
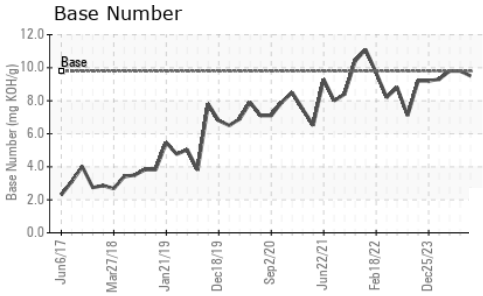
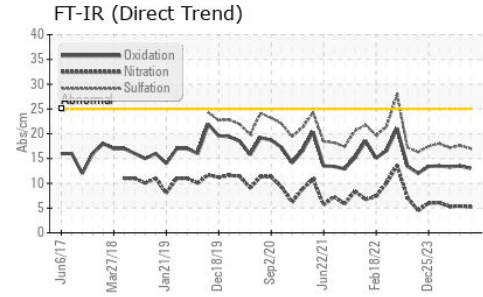
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	<b>0.2</b>	0.2	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.2</b>	5.4	5.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.0</b>	17.6	17.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.0</b>	13.5	13.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>9.5</b>	9.8	9.8



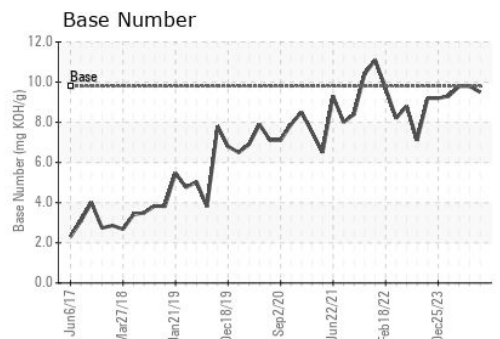
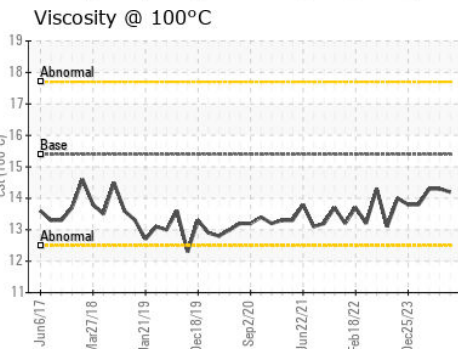
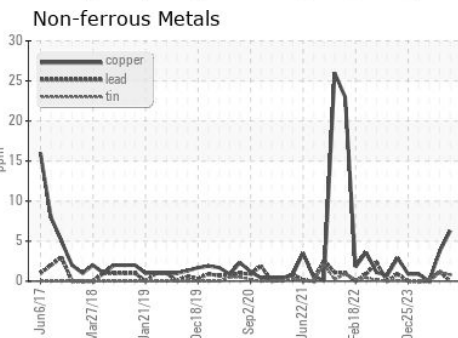
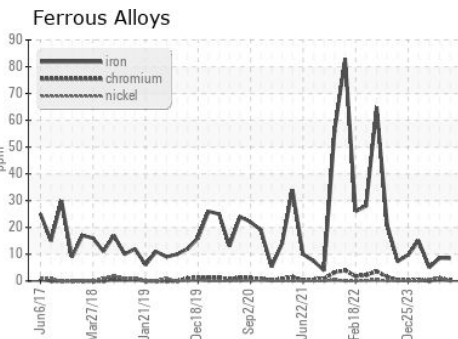
# OIL ANALYSIS REPORT



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>14.2</b>	14.3	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0118658      **Received** : 13 May 2024  
**Lab Number** : **06176703**      **Tested** : 14 May 2024  
**Unique Number** : 11022756      **Diagnosed** : 14 May 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 166 - Phenix City**  
 18 Old Brickyard Rd  
 Phenix City, AL  
 US 36869  
 Contact: DEAN PEACE JR  
 dean.peace@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)