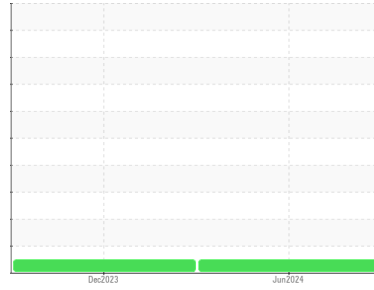




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**410024**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 10W30 (--- 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>GFL0093809</b>	GFL0093838	---
Sample Date	Client Info		<b>24 Jun 2024</b>	28 Dec 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>18</b>	13	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	2	---
Lead	ppm	ASTM D5185m >40	<b>2</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>3</b>	3	---
Barium	ppm	ASTM D5185m 0	<b>1</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>64</b>	57	---
Manganese	ppm	ASTM D5185m 0	<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>949</b>	928	---
Calcium	ppm	ASTM D5185m 1050	<b>1079</b>	996	---
Phosphorus	ppm	ASTM D5185m 995	<b>936</b>	943	---
Zinc	ppm	ASTM D5185m 1180	<b>1236</b>	1163	---
Sulfur	ppm	ASTM D5185m 2600	<b>2638</b>	2424	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	4	---
Sodium	ppm	ASTM D5185m	<b>4</b>	7	---
Potassium	ppm	ASTM D5185m >20	<b>6</b>	5	---

## INFRA-RED

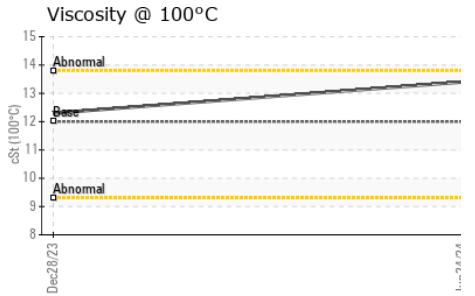
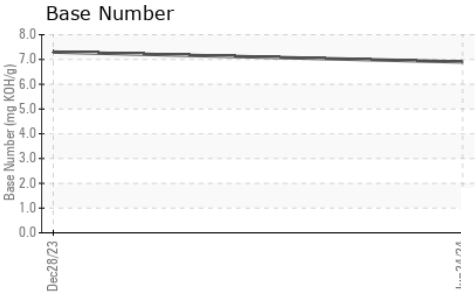
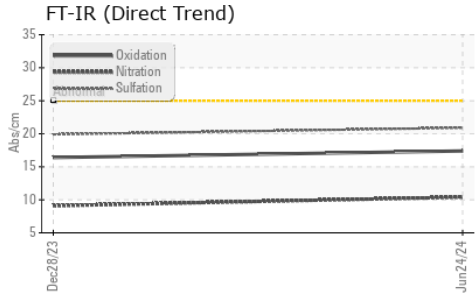
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.4</b>	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.9</b>	19.9	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.4</b>	16.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.9</b>	7.3	---



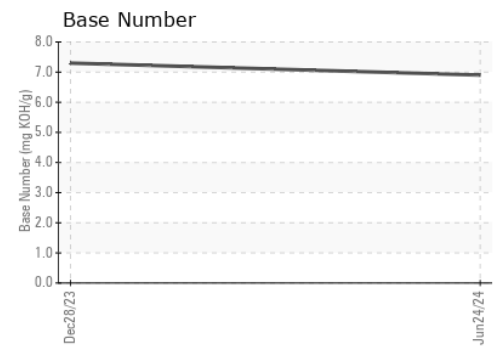
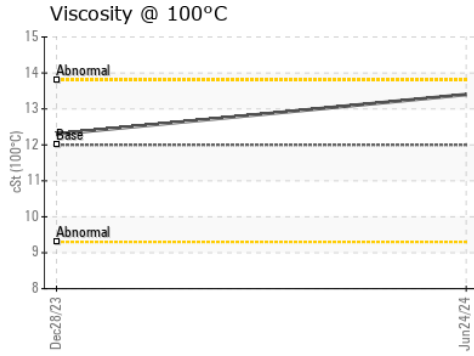
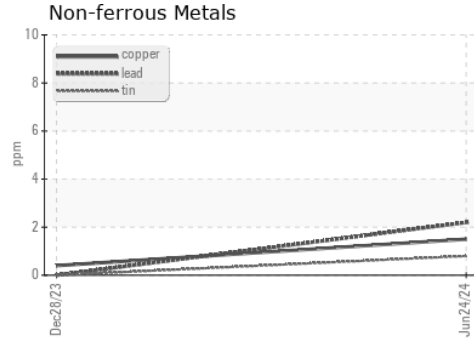
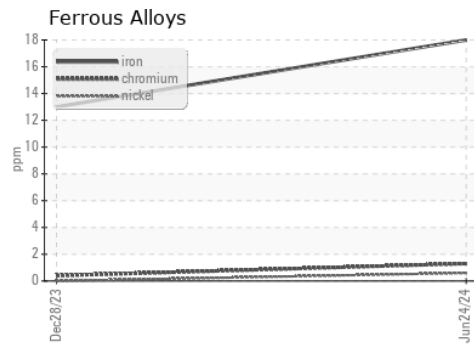
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	13.4	12.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0093809      **Received** : 25 Jun 2024  
**Lab Number** : 06219464      **Tested** : 26 Jun 2024  
**Unique Number** : 11097661      **Diagnosed** : 26 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 952 - New London**  
 E8257 WIS-54  
 NEW LONDON, WI  
 US 54961  
 Contact: MATTHEW TAYLOR

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)

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