

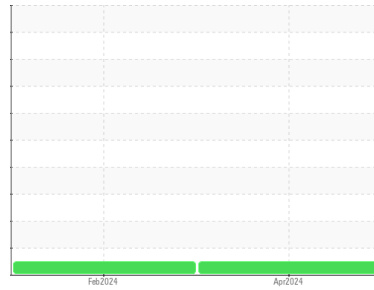


# OIL ANALYSIS REPORT



Area  
**(TB7755)**  
Machine Id  
**914036**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## Sample Rating Trend



**NORMAL**



## 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	history1	history2
Sample Number	Client Info		<b>GFL0113077</b>	GFL0113033	---
Sample Date	Client Info		<b>15 Apr 2024</b>	22 Feb 2024	---
Machine Age	hrs	Client Info	<b>1104</b>	687	---
Oil Age	hrs	Client Info	<b>600</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	0.3	---
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 >120	<b>7</b>	51	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	8	---
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	6	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >330	<b>3</b>	121	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>7</b>	163	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 60	<b>59</b>	110	---
Manganese	ppm	ASTM D5185m 0	<b>0</b>	3	---
Magnesium	ppm	ASTM D5185m 1010	<b>939</b>	730	---
Calcium	ppm	ASTM D5185m 1070	<b>1067</b>	1364	---
Phosphorus	ppm	ASTM D5185m 1150	<b>1054</b>	678	---
Zinc	ppm	ASTM D5185m 1270	<b>1201</b>	835	---
Sulfur	ppm	ASTM D5185m 2060	<b>3303</b>	2198	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	52	---
Sodium	ppm	ASTM D5185m	<b>2</b>	4	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	9	---

## INFRA-RED

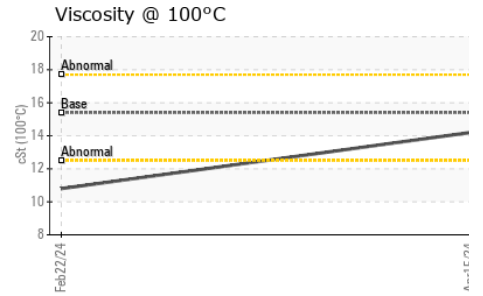
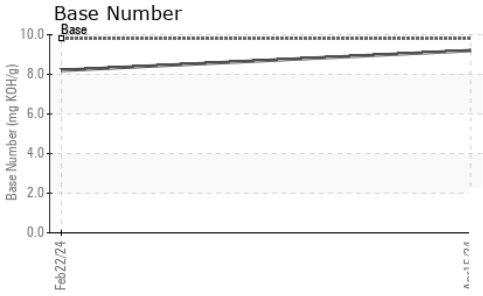
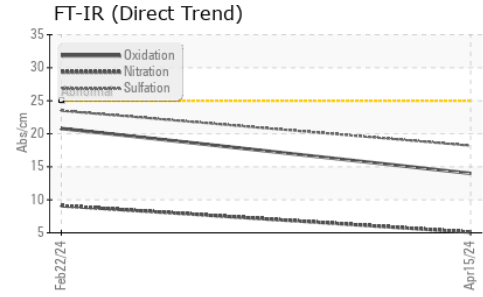
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>0.2</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.1</b>	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.2</b>	23.5	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.0</b>	20.8	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>9.2</b>	8.2	---



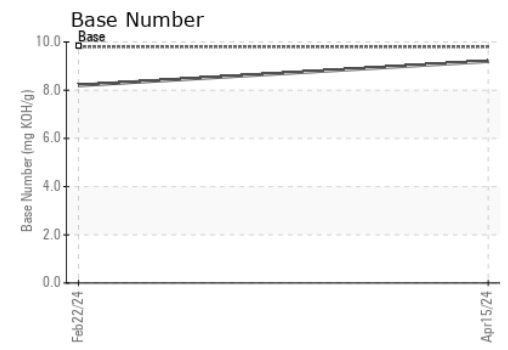
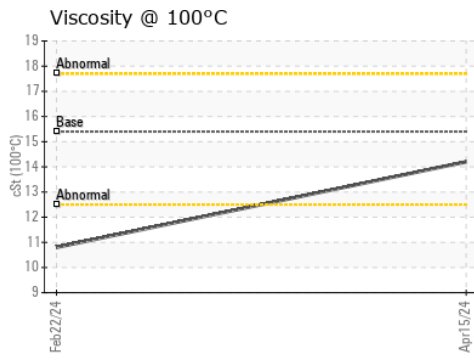
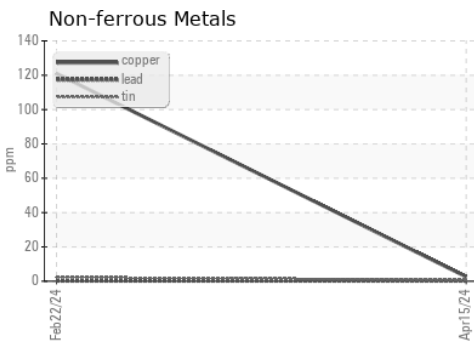
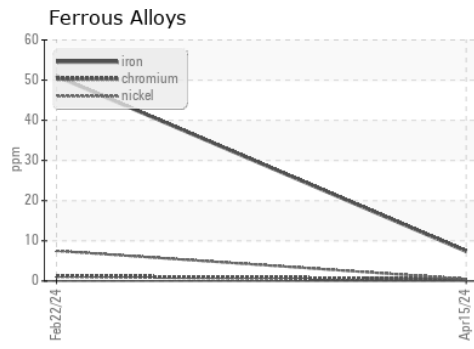
# OIL ANALYSIS REPORT



VISUAL	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	15.4	14.2	10.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113077      **Received** : 19 Apr 2024  
**Lab Number** : 06153970      **Tested** : 22 Apr 2024  
**Unique Number** : 10989393      **Diagnosed** : 22 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 924 - Madison HC**  
 300 Raemisch Road  
 Waunakee, WI  
 US 53597  
 Contact: Ben Briggs  
 ben.briggs@gflenv.com  
 T: (608)770-9196  
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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)