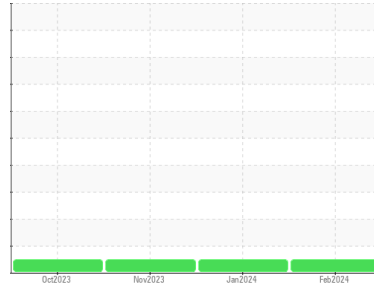




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**834051**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## 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>GFL0108068</b>	GFL0108128	GFL0098657
Sample Date	Client Info		<b>20 Feb 2024</b>	25 Jan 2024	14 Nov 2023
Machine Age	hrs	Client Info	<b>926</b>	761	587
Oil Age	hrs	Client Info	<b>926</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	N/A
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>54</b>	58	52
Chromium	ppm	ASTM D5185m >5	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m >4	<b>2</b>	2	2
Titanium	ppm	ASTM D5185m >5	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	3	4
Lead	ppm	ASTM D5185m >40	<b>4</b>	3	2
Copper	ppm	ASTM D5185m >150	<b>16</b>	19	19
Tin	ppm	ASTM D5185m >4	<b>2</b>	3	2
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>8</b>	5	8
Barium	ppm	ASTM D5185m 0	<b>3</b>	0	3
Molybdenum	ppm	ASTM D5185m 60	<b>60</b>	60	49
Manganese	ppm	ASTM D5185m 0	<b>13</b>	15	14
Magnesium	ppm	ASTM D5185m 1010	<b>879</b>	856	756
Calcium	ppm	ASTM D5185m 1070	<b>1386</b>	1124	1164
Phosphorus	ppm	ASTM D5185m 1150	<b>828</b>	676	717
Zinc	ppm	ASTM D5185m 1270	<b>1080</b>	1037	879
Sulfur	ppm	ASTM D5185m 2060	<b>2382</b>	2181	2216

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>26</b>	32	36
Sodium	ppm	ASTM D5185m	<b>6</b>	<1	6
Potassium	ppm	ASTM D5185m >20	<b>4</b>	5	5

## INFRA-RED

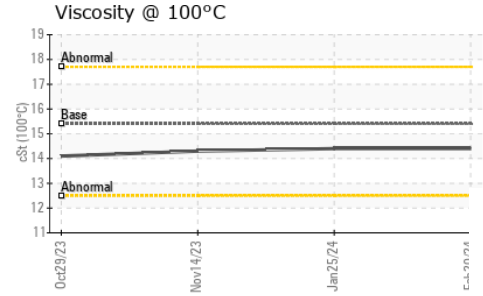
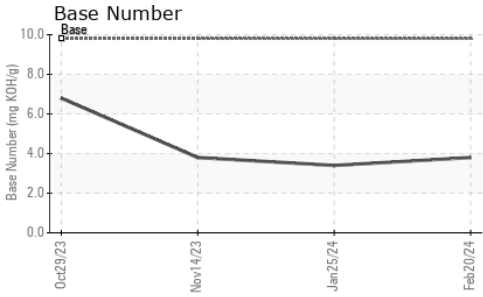
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.0</b>	12.3	13.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.5</b>	24.0	24.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.3</b>	21.0	22.5
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>3.8</b>	3.4	3.8



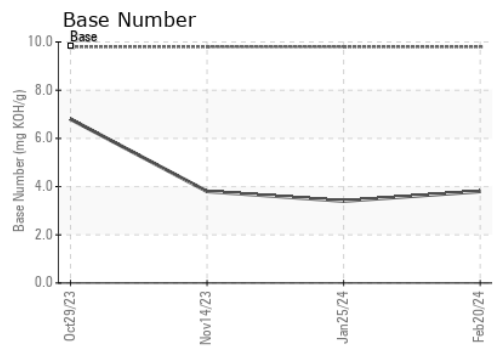
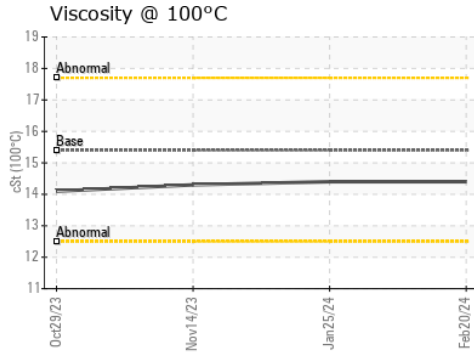
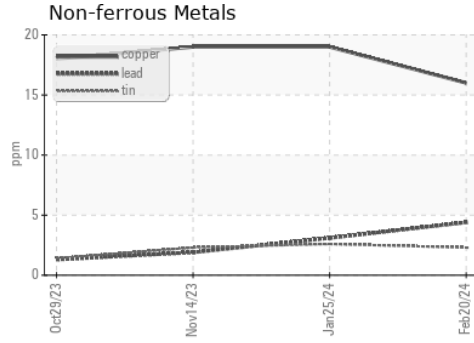
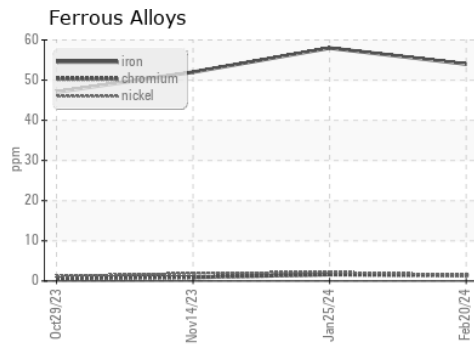
# OIL ANALYSIS REPORT



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	>0.1	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>14.4</b>	14.4	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0108068  
**Lab Number** : **06100771**  
**Unique Number** : 10899001  
**Test Package** : FLEET  
**Received** : 26 Feb 2024  
**Tested** : 27 Feb 2024  
**Diagnosed** : 27 Feb 2024 - Wes Davis

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO  
 US 64701  
 Contact: Robert Hart

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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 F: