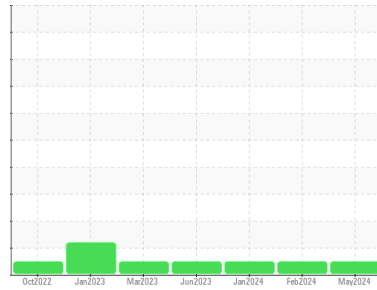




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(MC12735)**  
 Machine Id  
**7996**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (--- 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>GFL0123762</b>	GFL0112982	GFL0108413
Sample Date	Client Info		<b>24 May 2024</b>	15 Feb 2024	10 Jan 2024
Machine Age	hrs	Client Info	<b>13226</b>	733	445
Oil Age	hrs	Client Info	<b>1366</b>	733	445
Oil Changed	Client Info		<b>Changed</b>	Changed	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>9</b>	9	24
Chromium	ppm	ASTM D5185m >5	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	1	1
Lead	ppm	ASTM D5185m >150	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >90	<b>1</b>	<1	1
Tin	ppm	ASTM D5185m >5	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	<b>13</b>	19	2
Barium	ppm	ASTM D5185m 1	<b>&lt;1</b>	3	0
Molybdenum	ppm	ASTM D5185m 60	<b>54</b>	52	63
Manganese	ppm	ASTM D5185m 1	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 1010	<b>520</b>	556	973
Calcium	ppm	ASTM D5185m 1070	<b>1563</b>	1392	1154
Phosphorus	ppm	ASTM D5185m 1150	<b>660</b>	794	1047
Zinc	ppm	ASTM D5185m 1270	<b>929</b>	916	1302
Sulfur	ppm	ASTM D5185m 2060	<b>2314</b>	2437	2802

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>4</b>	3	5
Sodium	ppm	ASTM D5185m	<b>8</b>	2	6
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	0

## INFRA-RED

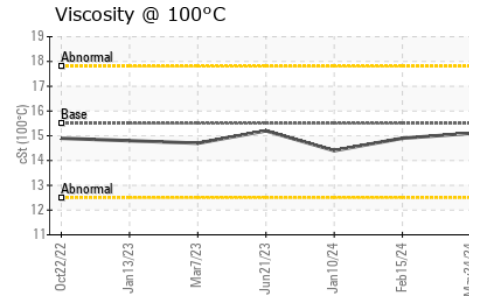
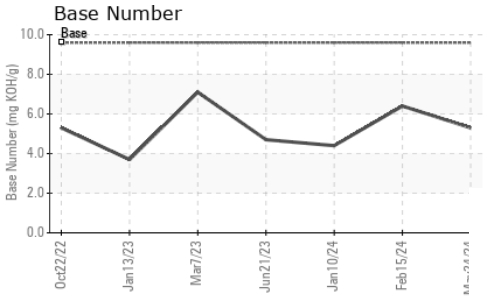
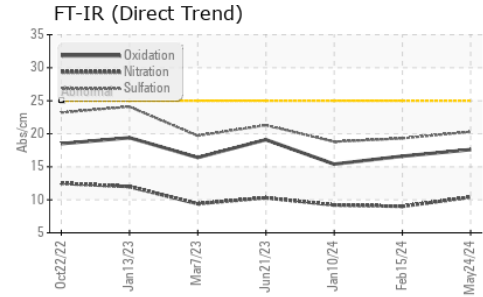
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >7.5	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.4</b>	9.0	9.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.3</b>	19.3	18.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.6</b>	16.6	15.4
Base Number (BN)	mg KOH/g	ASTM D2896 9.6	<b>5.3</b>	6.4	4.4



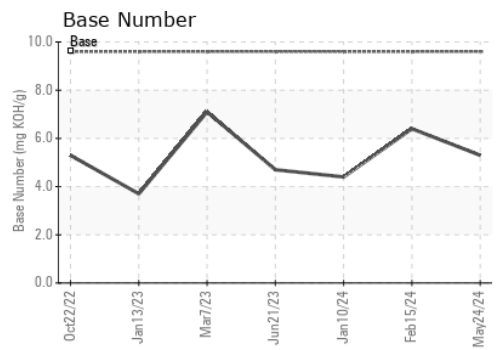
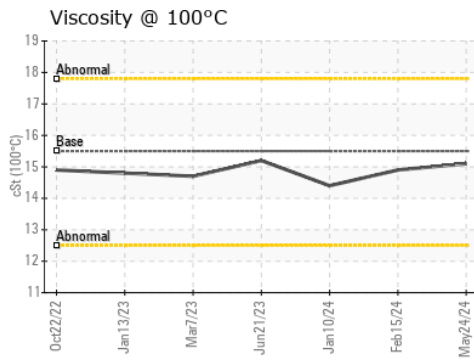
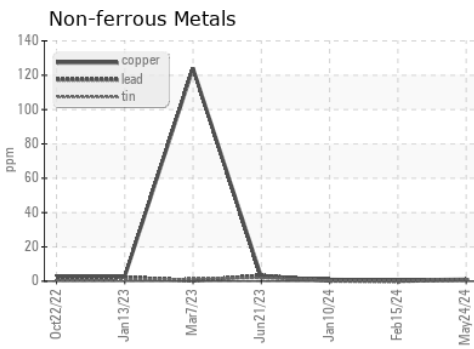
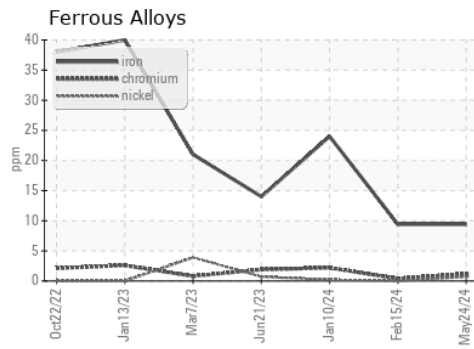
# OIL ANALYSIS REPORT



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	15.5	15.1	14.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123762      **Received** : 28 May 2024  
**Lab Number** : 06191934      **Tested** : 29 May 2024  
**Unique Number** : 11048686      **Diagnosed** : 30 May 2024 - Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 918 - Hartland HC**  
 630 E Industrial Drive  
 Hartland, WI  
 US 53029  
 Contact: David McCall  
 david.mccall@gflenv.com  
 T: (262)369-3069  
 F:

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)