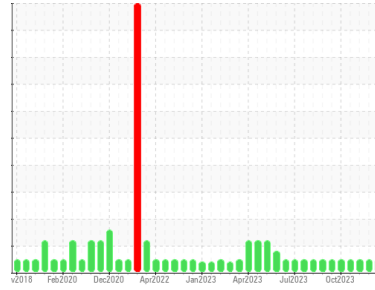




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(DUX582)**

Machine Id  
**10690**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (7 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>GFL0112350</b>	GFL0109939	GFL0107184
Sample Date	Client Info	<b>29 Feb 2024</b>	30 Jan 2024	12 Jan 2024
Machine Age	hrs	<b>128</b>	20431	20292
Oil Age	hrs	<b>298</b>	139	557
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>44</b>	16	47
Chromium	ppm ASTM D5185m >5	<b>2</b>	<1	1
Nickel	ppm ASTM D5185m >4	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185m >2	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >15	<b>10</b>	4	5
Lead	ppm ASTM D5185m >25	<b>0</b>	<1	<1
Copper	ppm ASTM D5185m >100	<b>2</b>	<1	4
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	0
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 0	<b>8</b>	11	2
Barium	ppm ASTM D5185m 0	<b>0</b>	0	3
Molybdenum	ppm ASTM D5185m 60	<b>62</b>	58	64
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 1010	<b>884</b>	845	945
Calcium	ppm ASTM D5185m 1070	<b>1017</b>	965	1088
Phosphorus	ppm ASTM D5185m 1150	<b>1044</b>	976	963
Zinc	ppm ASTM D5185m 1270	<b>1216</b>	1140	1214
Sulfur	ppm ASTM D5185m 2060	<b>3107</b>	2852	3093

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>9</b>	5	8
Sodium	ppm ASTM D5185m	<b>6</b>	4	2
Potassium	ppm ASTM D5185m >20	<b>2</b>	1	2

## INFRA-RED

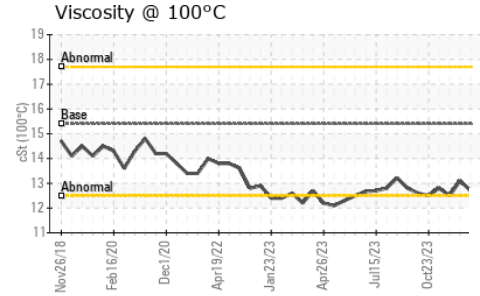
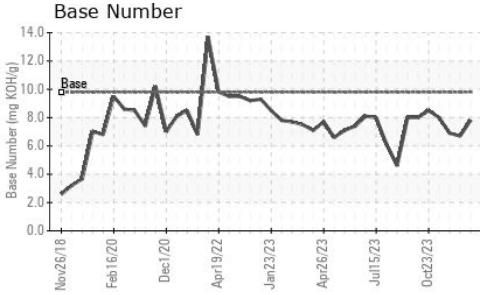
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	<b>1.4</b>	0.7	1.4
Nitration	Abs/cm *ASTM D7624 >20	<b>8.0</b>	6.1	9.3
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>19.6</b>	17.8	19.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.4</b>	12.4	14.3
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>7.8</b>	6.7	6.9



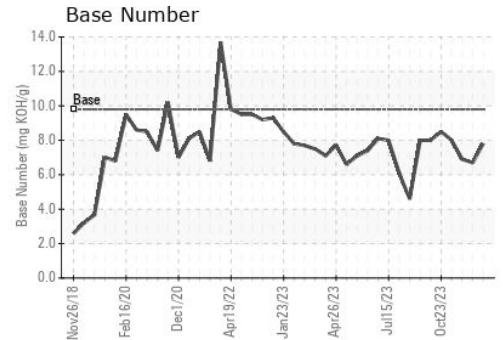
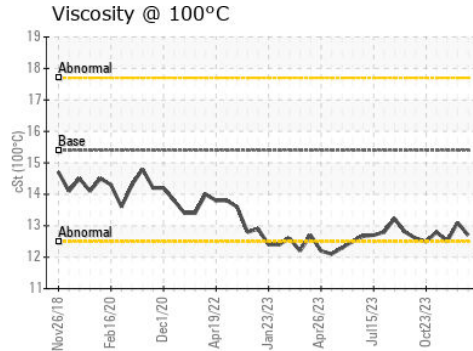
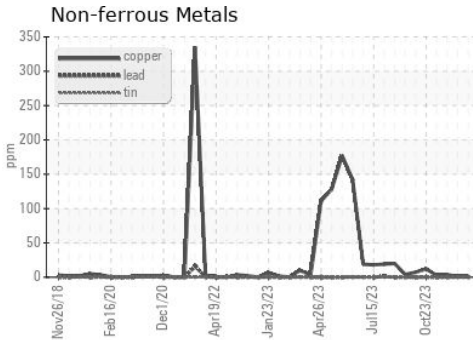
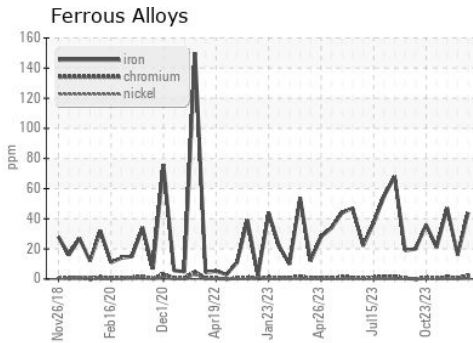
# OIL ANALYSIS REPORT



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	12.7	13.1

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0112350  
 Lab Number : 06105709  
 Unique Number : 10903939  
 Test Package : FLEET

Received : 01 Mar 2024  
 Tested : 01 Mar 2024  
 Diagnosed : 01 Mar 2024 - Wes Davis

GFL Environmental - 010 - Stockbridge  
 1280 Rum Creek Parkway  
 Stockbridge, GA  
 US 30281  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.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)

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F: