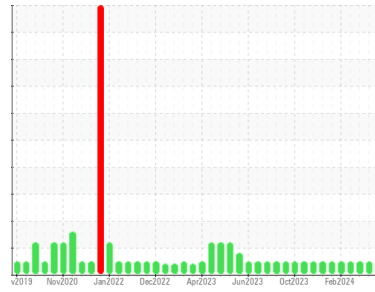




# OIL ANALYSIS REPORT

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>GFL0122156</b>	GFL0122204	GFL0118053
Sample Date	Client Info	<b>08 Jul 2024</b>	12 Jun 2024	02 May 2024
Machine Age	hrs Client Info	<b>850</b>	653	562
Oil Age	hrs Client Info	<b>580</b>	383	292
Oil Changed	Client Info	<b>Changed</b>	Not Changd	Not 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>49</b>	45	40
Chromium	ppm ASTM D5185m >5	<b>2</b>	2	2
Nickel	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185m >2	<b>0</b>	0	<1
Silver	ppm ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >15	<b>7</b>	8	7
Lead	ppm ASTM D5185m >25	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >100	<b>1</b>	2	2
Tin	ppm ASTM D5185m >4	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	2	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	<b>3</b>	3	4
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 60	<b>60</b>	63	63
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	2	<1
Magnesium	ppm ASTM D5185m 1010	<b>853</b>	869	851
Calcium	ppm ASTM D5185m 1070	<b>1109</b>	1093	1067
Phosphorus	ppm ASTM D5185m 1150	<b>988</b>	949	983
Zinc	ppm ASTM D5185m 1270	<b>1182</b>	1159	1163
Sulfur	ppm ASTM D5185m 2060	<b>3035</b>	3031	3097

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>10</b>	10	9
Sodium	ppm ASTM D5185m	<b>7</b>	8	6
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	3	2

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	<b>1.8</b>	1.7	1.4
Nitration	Abs/cm *ASTM D7624 >20	<b>9.5</b>	8.9	7.8
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.0</b>	20.7	19.6

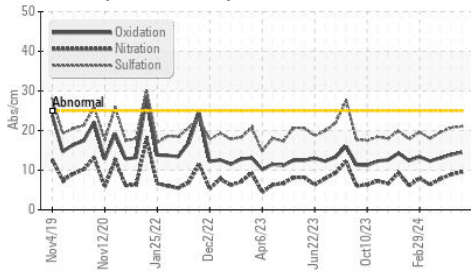
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>14.5</b>	13.9	13.1
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>7.4</b>	7.3	7.8

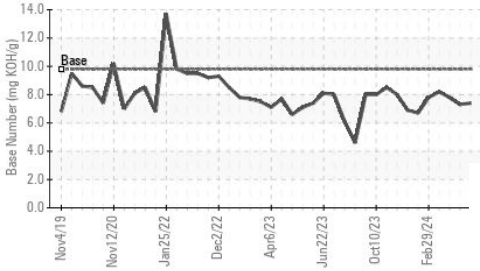


# OIL ANALYSIS REPORT

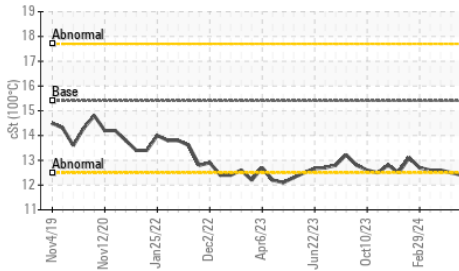
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

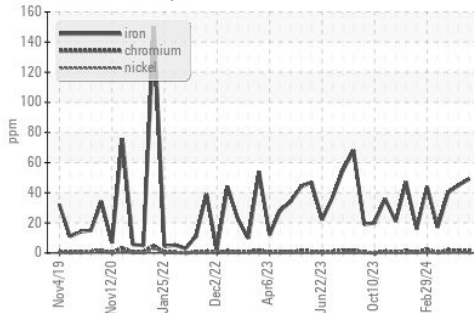


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

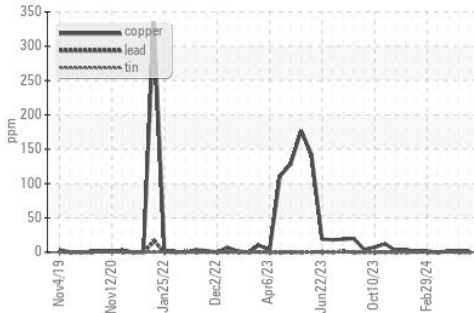
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	12.5

## GRAPHS

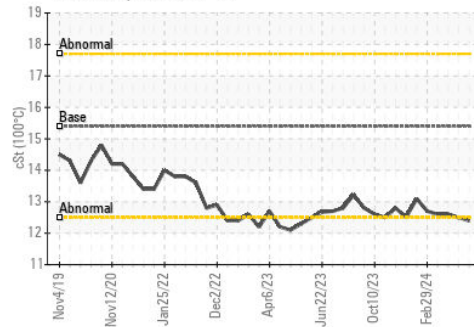
Ferrous Alloys



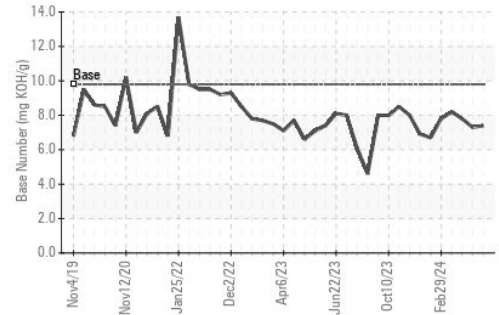
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0122156  
 Lab Number : 06231323  
 Unique Number : 11114816  
 Test Package : FLEET

Received : 09 Jul 2024  
 Tested : 10 Jul 2024  
 Diagnosed : 10 Jul 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: