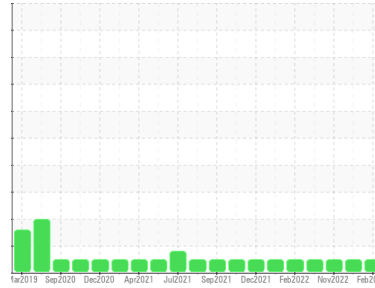




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(YA150026)**  
Machine Id  
**AUTOCAR 10958**

Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (10 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>GFL0111387</b>	GFL0072236	GFL0058996
Sample Date	Client Info		<b>03 Feb 2024</b>	08 Aug 2023	07 Nov 2022
Machine Age	hrs	Client Info	<b>0</b>	5690	5690
Oil Age	hrs	Client Info	<b>0</b>	10301	646
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
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>8</b>	21	18
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	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 >20	<b>&lt;1</b>	3	<1
Lead	ppm	ASTM D5185m >150	<b>1</b>	4	10
Copper	ppm	ASTM D5185m >90	<b>&lt;1</b>	4	10
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>4</b>	8	4
Barium	ppm	ASTM D5185m 0	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m 60	<b>61</b>	64	62
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1010	<b>934</b>	965	970
Calcium	ppm	ASTM D5185m 1070	<b>1000</b>	1112	1162
Phosphorus	ppm	ASTM D5185m 1150	<b>951</b>	992	948
Zinc	ppm	ASTM D5185m 1270	<b>1196</b>	1245	1288
Sulfur	ppm	ASTM D5185m 2060	<b>3017</b>	2849	2803

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>5</b>	9	6
Sodium	ppm	ASTM D5185m	<b>0</b>	6	5
Potassium	ppm	ASTM D5185m >20	<b>3</b>	<1	0

## INFRA-RED

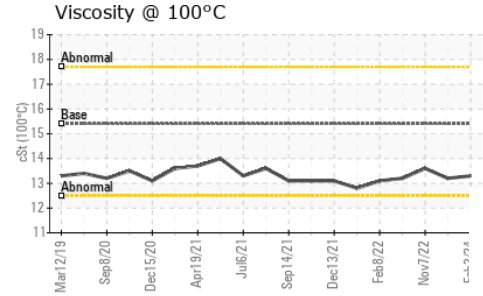
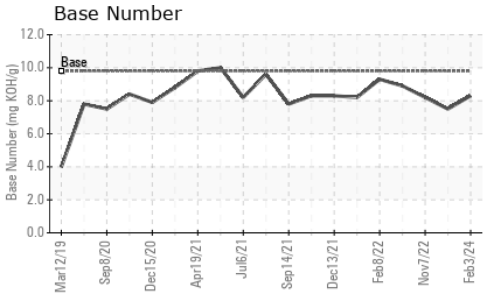
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >7.5	<b>0.3</b>	0.4	0.6
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.1</b>	7.9	10.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.1</b>	19.3	22.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.1</b>	14.9	18.7
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>8.3</b>	7.5	8.2



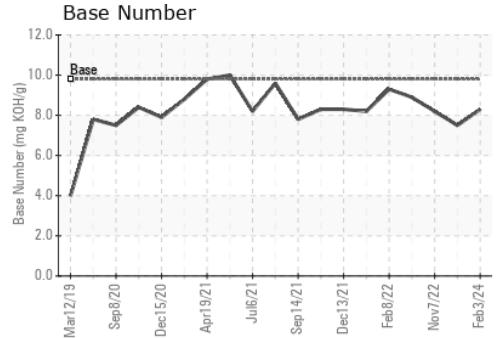
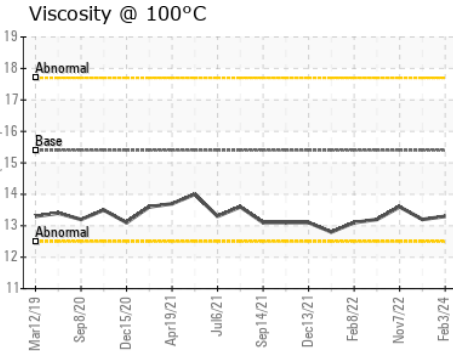
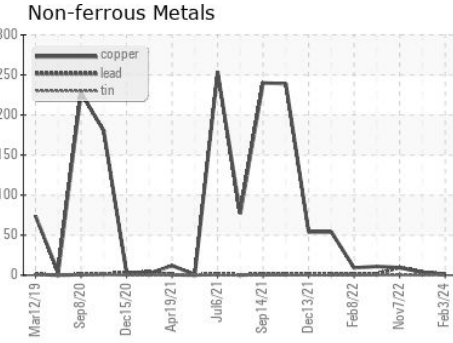
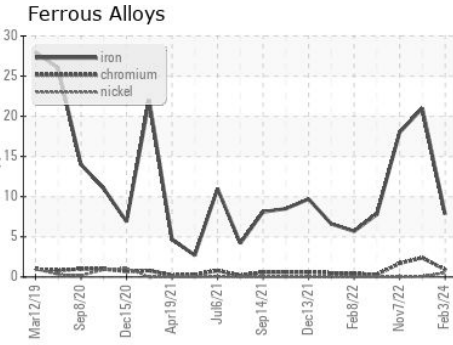
# OIL ANALYSIS REPORT



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	<b>13.3</b>	13.2	13.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0111387  
**Lab Number** : 06078169  
**Unique Number** : 10860260  
**Test Package** : FLEET

**Received** : 02 Feb 2024  
**Tested** : 05 Feb 2024  
**Diagnosed** : 05 Feb 2024 - Wes Davis

**GFL Environmental - 004 - Newport - Central Coast**  
 427 Roberts Road  
 Newport, NC  
 US 28570  
 Contact: Marquis Williams  
 marquis.williams@gflenv.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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