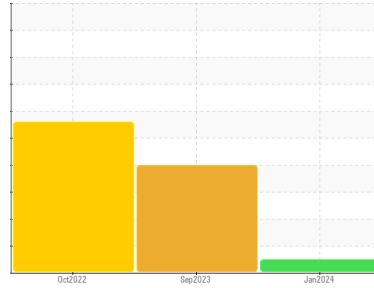




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**925032**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: re sample )

### 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>GFL0086742</b>	GFL0080375	GFL0060622
Sample Date	Client Info		<b>25 Jan 2024</b>	25 Sep 2023	12 Oct 2022
Machine Age	hrs	Client Info	<b>21931</b>	21059	18567
Oil Age	hrs	Client Info	<b>872</b>	21059	18567
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>---</b>	0.0	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>45</b>	▲ 56	▲ 46
Chromium	ppm	ASTM D5185m >5	<b>5</b>	▲ 8	▲ 8
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	<1
Titanium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	0	4
Lead	ppm	ASTM D5185m >40	<b>2</b>	7	24
Copper	ppm	ASTM D5185m >150	<b>2</b>	4	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>3</b>	2	51
Barium	ppm	ASTM D5185m 5	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m 50	<b>64</b>	73	101
Manganese	ppm	ASTM D5185m 0	<b>1</b>	2	2
Magnesium	ppm	ASTM D5185m 560	<b>633</b>	656	552
Calcium	ppm	ASTM D5185m 1510	<b>1850</b>	1832	1777
Phosphorus	ppm	ASTM D5185m 780	<b>862</b>	806	853
Zinc	ppm	ASTM D5185m 870	<b>1052</b>	1052	1024
Sulfur	ppm	ASTM D5185m 2040	<b>2627</b>	2742	2551

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>8</b>	20	▲ 30
Sodium	ppm	ASTM D5185m	<b>53</b>	▲ 111	▲ 471
Potassium	ppm	ASTM D5185m >20	<b>5</b>	25	▲ 133

## INFRA-RED

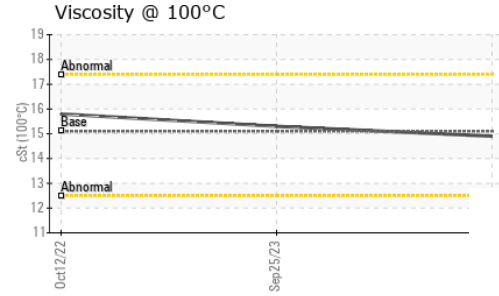
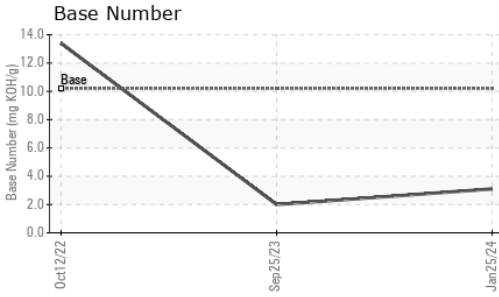
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>14.2</b>	16.9	16.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>28.3</b>	32.5	28.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>23.9</b>	30.7	25.0
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>3.1</b>	▲ 2.0	13.4



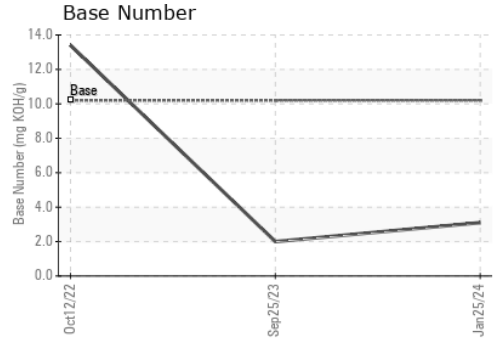
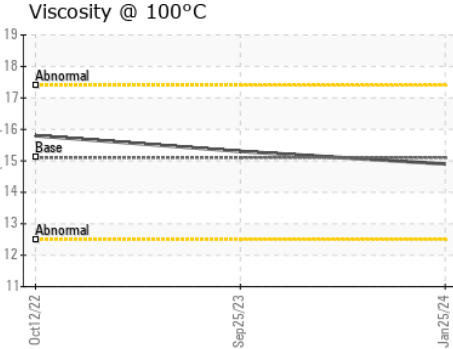
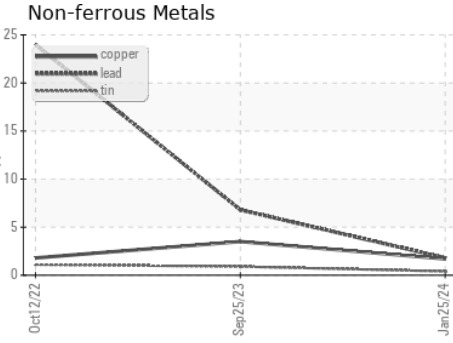
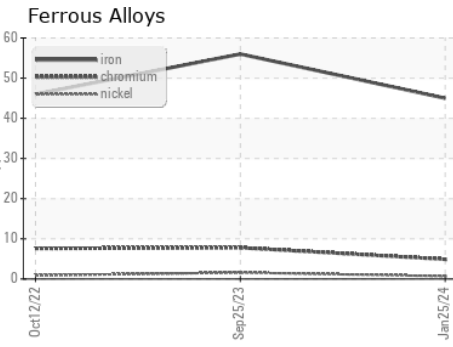
# OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.9</b>	15.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0086742 **Received** : 29 Jan 2024  
**Lab Number** : **06072487** **Diagnosed** : 30 Jan 2024  
**Unique Number** : 10849164 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**GFL Environmental - 932 - Muskego HC**  
 W144 S6400 College Ct.  
 Muskego, WI  
 US 53150  
 Contact: Brian Schломann  
 brian.schlomann@gflenv.com  
 T: (262)510-4586  
 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)