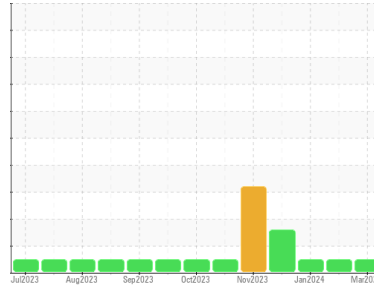




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**934021**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 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>GFL0114015</b>	GFL0109840	GFL0103305
Sample Date	Client Info	<b>08 Mar 2024</b>	07 Feb 2024	16 Jan 2024
Machine Age	hrs	<b>1919</b>	1687	1541
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>20</b>	20	21
Chromium	ppm ASTM D5185m >5	<b>1</b>	<1	2
Nickel	ppm ASTM D5185m >4	<b>1</b>	<1	<1
Titanium	ppm ASTM D5185m >5	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>7</b>	6	2
Lead	ppm ASTM D5185m >40	<b>4</b>	2	9
Copper	ppm ASTM D5185m >150	<b>3</b>	3	1
Tin	ppm ASTM D5185m >4	<b>2</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>8</b>	4	9
Barium	ppm ASTM D5185m 5	<b>0</b>	0	3
Molybdenum	ppm ASTM D5185m 50	<b>60</b>	55	65
Manganese	ppm ASTM D5185m 0	<b>2</b>	2	<1
Magnesium	ppm ASTM D5185m 560	<b>635</b>	612	697
Calcium	ppm ASTM D5185m 1510	<b>1850</b>	1840	1791
Phosphorus	ppm ASTM D5185m 780	<b>852</b>	812	827
Zinc	ppm ASTM D5185m 870	<b>1109</b>	1061	1163
Sulfur	ppm ASTM D5185m 2040	<b>3039</b>	2581	2712

## CONTAMINANTS

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

## INFRA-RED

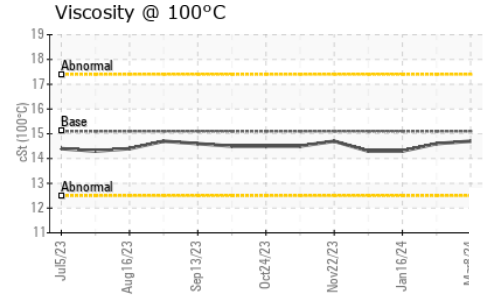
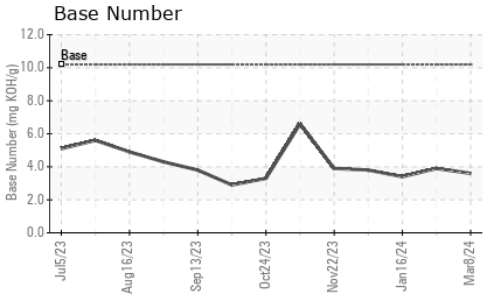
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm *ASTM D7624 >20	<b>12.0</b>	12.2	12.8
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>25.0</b>	24.7	27.7

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>20.5</b>	20.0	22.7
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>3.6</b>	3.9	3.4



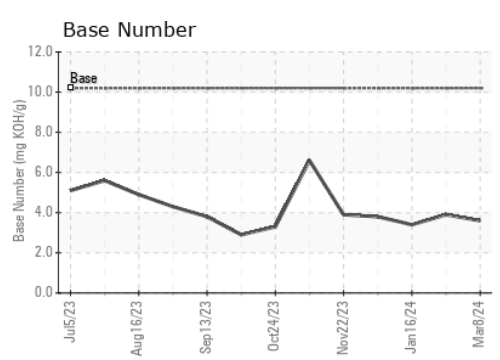
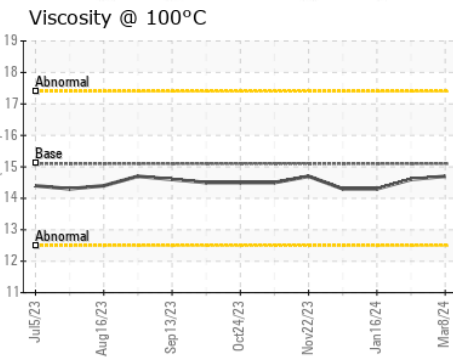
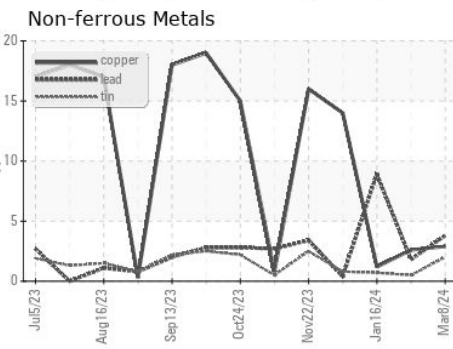
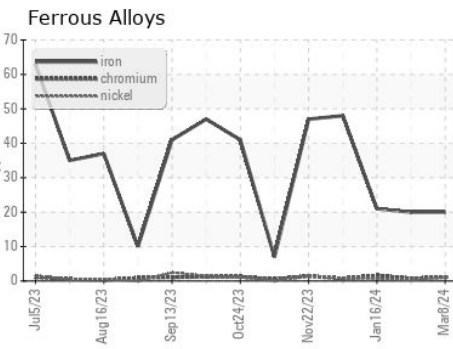
# OIL ANALYSIS REPORT



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>14.7</b>	14.6	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0114015  
**Lab Number** : 06116494  
**Unique Number** : 10925327  
**Test Package** : FLEET  
**Received** : 12 Mar 2024  
**Tested** : 14 Mar 2024  
**Diagnosed** : 14 Mar 2024 - Wes Davis

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Loyce Stewart  
 loyce.stewart@gflenv.com  
 T:  
 F:

Certificate L2367  
 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)