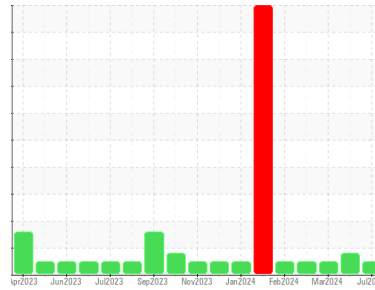




# OIL ANALYSIS REPORT

Machine Id  
**732027**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

Sample Rating Trend



**NORMAL**

## 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>GFL0124102</b>	GFL0124071	GFL0114083
Sample Date	Client Info		<b>15 Jul 2024</b>	28 Jun 2024	27 Mar 2024
Machine Age	hrs	Client Info	<b>2498</b>	2441	2158
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	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>10</b>	▲ 50	9
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	6	2
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	5	0
Copper	ppm	ASTM D5185m >150	<b>2</b>	8	0
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	<1
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 50	<b>13</b>	13	17
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>55</b>	60	50
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	8	<1
Magnesium	ppm	ASTM D5185m 560	<b>576</b>	754	575
Calcium	ppm	ASTM D5185m 1510	<b>1656</b>	1732	1657
Phosphorus	ppm	ASTM D5185m 780	<b>817</b>	874	816
Zinc	ppm	ASTM D5185m 870	<b>1024</b>	1102	1009
Sulfur	ppm	ASTM D5185m 2040	<b>2463</b>	2909	2866

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	15	4
Sodium	ppm	ASTM D5185m	<b>7</b>	5	5
Potassium	ppm	ASTM D5185m >20	<b>8</b>	3	1

## INFRA-RED

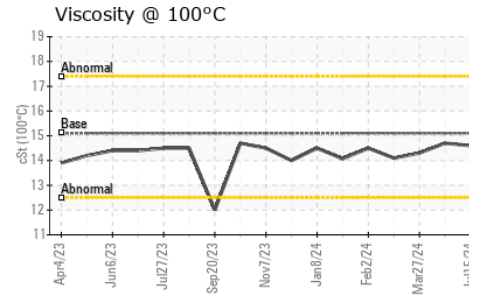
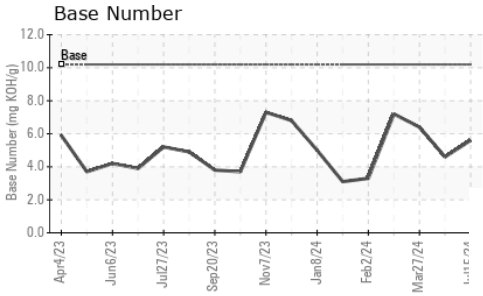
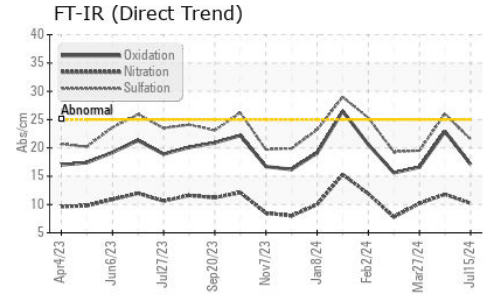
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.2</b>	11.8	10.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.5</b>	26.0	19.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.1</b>	22.9	16.6
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>5.6</b>	4.6	6.4



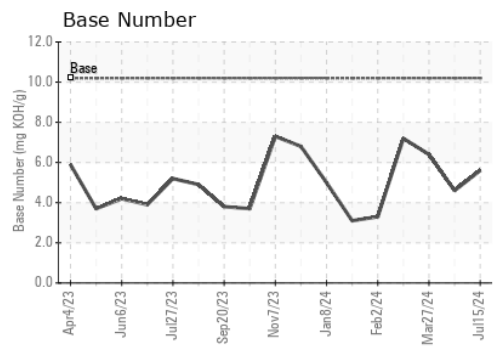
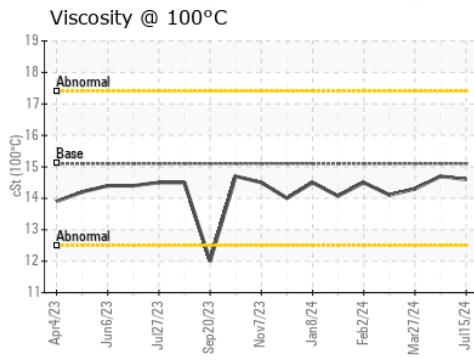
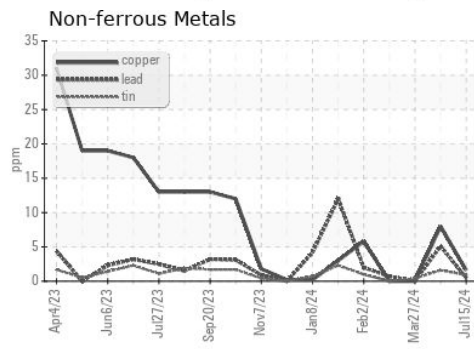
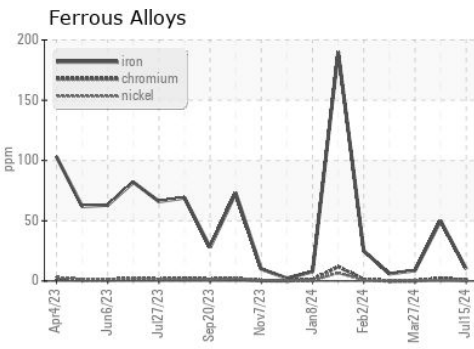
# OIL ANALYSIS REPORT



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>14.6</b>	14.7	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0124102      **Received** : 18 Jul 2024  
**Lab Number** : 06239845      **Tested** : 18 Jul 2024  
**Unique Number** : 11128679      **Diagnosed** : 18 Jul 2024 - Wes Davis  
**Test Package** : FLEET

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