

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

#### 834047 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 INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122867	GFL0122822	GFL0122935
Sample Date		Client Info		10 Jul 2024	12 Jun 2024	11 Jun 2024
Machine Age	hrs	Client Info		1903	1763	1738
Oil Age	hrs	Client Info		1903	1763	1738
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	20	16	18
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>9	3	3	2
Lead	ppm	ASTM D5185m	>30	2	<1	1
Copper	ppm	ASTM D5185m	>35	4	3	4
Tin	ppm	ASTM D5185m	>4	1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	5	10	8
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	55	52	53
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	560	585	625	564
Calcium	ppm	ASTM D5185m	1510	1600	1611	1575
Phosphorus	ppm	ASTM D5185m	780	725	699	770
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	870 2040	970 2304	993 2776	971 2608
	ppm					
CONTAMINAN Silicon		method ASTM D5185m	limit/base	current 9	history1 8	history2 8
Sodium	ppm ppm	ASTM D5185m	>+100	8	o 7	8
Potassium		ASTM D5185m	> 20	2	3	2
	ppm					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	00	0	0	0
Nitration	Abs/cm	*ASTM D7624		12.1	11.6	11.6
Sulfation	Abs/.1mm	*ASTM D7415		24.5	22.1	21.9
FLUID DEGRA			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	19.4	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.4	4.4	4.5



0.0

19.

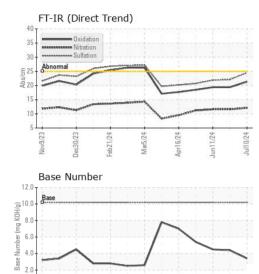
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# **OIL ANALYSIS REPORT**



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Viscosity @ 100°C

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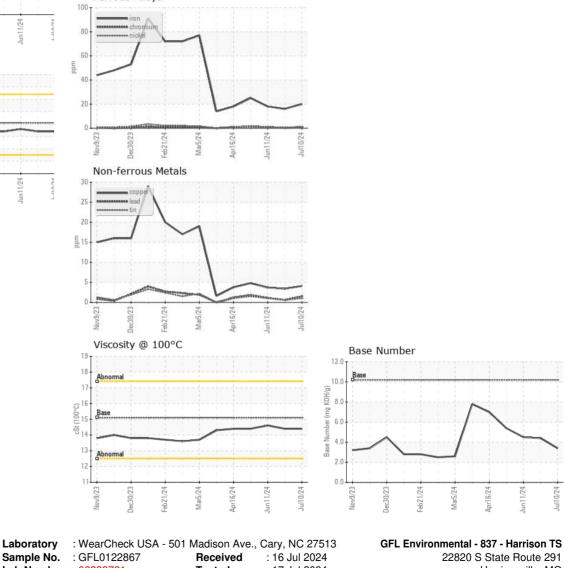
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.4	14.6
GRAPHS						

Ferrous Alloys





Sample No. Lab Number : 06238721 Tested : 17 Jul 2024 Harrisonville, MO Unique Number : 11127555 Diagnosed : 18 Jul 2024 - Sean Felton Test Package : FLEET Contact: SARA PATRICK Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. spatrick@gflenv.com \* - 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)

Submitted By: JEREMY BROWN

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