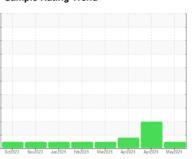


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







Machine Id 834051 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.

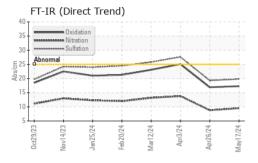
GEO LD 15W40 (-	GAL)	0ct2023 N	lov2023 Jan2024 Feb201	24 Marž024 Aprž024 Aprž024	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118831	GFL0118815	GFL0114194
Sample Date		Client Info		17 May 2024	26 Apr 2024	03 Apr 2024
Machine Age	hrs	Client Info		1459	1309	1170
Oil Age	hrs	Client Info		1320	1170	1170
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	12	11	<b>▲</b> 73
Chromium	ppm	ASTM D5185m	>5	<1	0	2
Nickel	ppm	ASTM D5185m	>4	<1	0	1
Titanium	ppm	ASTM D5185m	>5	0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	1	5
Lead	ppm	ASTM D5185m	>40	<1	0	5
Copper	ppm	ASTM D5185m	>150	3	0	17
Tin	ppm	ASTM D5185m	>4	1	<1	4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	25	31	6
Barium	ppm	ASTM D5185m	5	0	<1	3
Molybdenum	ppm	ASTM D5185m	50	52	49	64
Manganese	ppm	ASTM D5185m	0	2	1	15
Magnesium	ppm	ASTM D5185m	560	625	599	905
Calcium	ppm	ASTM D5185m	1510	1576	1508	1385
Phosphorus	ppm	ASTM D5185m	780	819	754	867
Zinc	ppm	ASTM D5185m	870	976	915	1111
Sulfur	ppm	ASTM D5185m	2040	2877	2691	2310
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	25
Sodium	ppm	ASTM D5185m		6	4	6
Potassium	ppm	ASTM D5185m	>20	2	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Vitration	Abs/cm	*ASTM D7624	>20	9.5	8.8	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.3	27.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	16.9	25.1
Dogo Number (DNI)				6.0	7.0	0.1

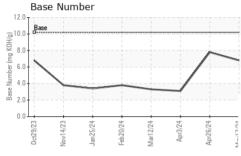
6.8

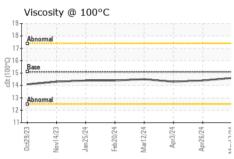
Base Number (BN) mg KOH/g ASTM D2896 10.2



# **OIL ANALYSIS REPORT**



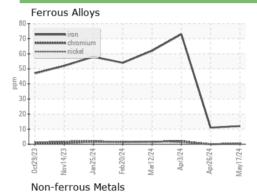


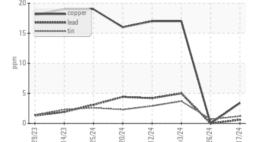


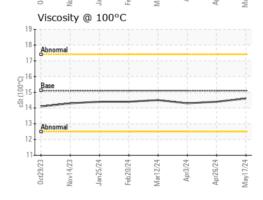
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

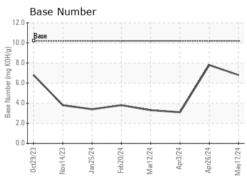
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.4	14.3

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Test Package : FLEET

: GFL0118831 Lab Number : 06185811 Unique Number : 11042563

Received **Tested** Diagnosed

: 21 May 2024 : 22 May 2024 : 22 May 2024 - Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO US 64701

Contact: Robert Hart

T: (580)461-1509

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)