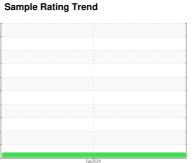


# **OIL ANALYSIS REPORT**

**-**



VISCOSITY



Machine Id **833030** 

Component

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

### DIAGNOSIS

#### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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

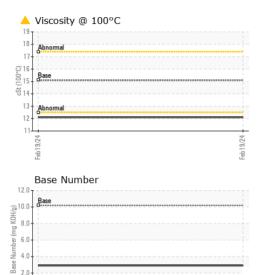
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

( GAL)			Feb.2024				
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
	iivii/ ti i o i t	Client Info	mma sass	GFL0098075			
Sample Number				19 Feb 2024			
Sample Date	laua	Client Info					
Machine Age	hrs	Client Info		1171			
Oil Age	hrs	Client Info		1171			
Oil Changed		Client Info		Changed			
Sample Status				ATTENTION			
CONTAMINAT	TION	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG			
WEAR METAL	_S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	32			
Chromium	ppm	ASTM D5185m	>4	1			
Nickel	ppm	ASTM D5185m	>2	<1			
Titanium	ppm	ASTM D5185m		<1			
Silver	ppm	ASTM D5185m	>3	0			
Aluminum	ppm	ASTM D5185m	>9	3			
Lead	ppm	ASTM D5185m	>30	7			
Copper	ppm	ASTM D5185m	>35	13			
Tin	ppm	ASTM D5185m	>4	2			
Vanadium	ppm	ASTM D5185m		0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	8			
Barium	ppm	ASTM D5185m	5	3			
Molybdenum	ppm	ASTM D5185m	50	56			
Manganese	ppm	ASTM D5185m		4			
Magnesium	ppm	ASTM D5185m	560	775			
Calcium	ppm	ASTM D5185m	1510	1169			
Phosphorus	ppm	ASTM D5185m	780	689			
Zinc	ppm	ASTM D5185m	870	860			
Sulfur	ppm	ASTM D5185m	2040	2094			
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	90			
Sodium	ppm	ASTM D5185m		6			
Potassium	ppm	ASTM D5185m	>20	10			
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.1			
Nitration	Abs/cm	*ASTM D7624	>20	14.0			
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3			
FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.0			
Base Number (BN)	mg KOH/g	ASTM D2896		2.9			
Dase Number (DIV)	ilig NOI1/g	AOTIVI DZ030	10.2	2.3			



0.0 Feb 19/24

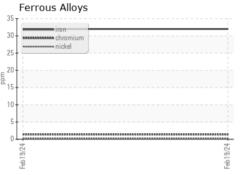
# **OIL ANALYSIS REPORT**

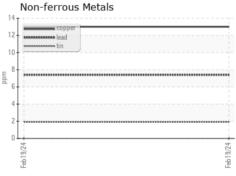


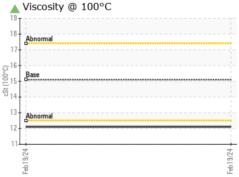
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

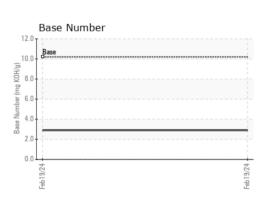
FLUID FROF	LULIES	memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.1	<b>12.1</b>		

### **GRAPHS**











Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098075 Lab Number : 06098148

Unique Number : 10896378

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** 

: 23 Feb 2024 Diagnosed

: 27 Feb 2024 : 27 Feb 2024 - Jonathan Hester **Test Package**: FLEET (Additional Tests: FUELDILUTION, PercentFuel)

GFL Environmental - 932 - Muskego HC W144 S6400 College Ct.

Muskego, WI US 53150

Contact: Brian Schlomann brian.schlomann@gflenv.com T: (262)510-4586

\* - 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)