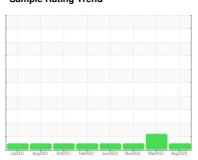


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



# Machine Id **944006**

Component

**Natural Gas Engine** 

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

## 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.

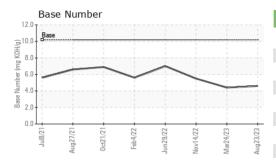
## **Fluid Condition**

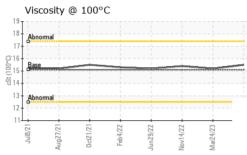
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

( LTR)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0085370	GFL0077322	GFL0063857	
Sample Date		Client Info		23 Aug 2023	24 Mar 2023	14 Nov 2022	
Machine Age	hrs	Client Info		23924	22794	21736	
Oil Age	hrs	Client Info		1130	1058	769	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	ATTENTION	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Glycol		WC Method			0.0		
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	11	14	11	
Chromium	ppm	ASTM D5185m	>4	1	2	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>9	4	7	5	
Lead	ppm	ASTM D5185m	>30	4	<1	<1	
Copper	ppm	ASTM D5185m	>35	4	8	3	
Tin	ppm	ASTM D5185m	>4	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	4	6	8	
Barium	ppm	ASTM D5185m	5	0	2	0	
Molybdenum	ppm	ASTM D5185m	50	44	60	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	560	486	546	613	
Calcium	ppm	ASTM D5185m	1510	1348	1609	1772	
Phosphorus	ppm	ASTM D5185m	780	586	710	767	
Zinc	ppm	ASTM D5185m	870	817	1004	1054	
Sulfur	ppm	ASTM D5185m	2040	2106	2324	3031	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	4	4	4	
Sodium	ppm	ASTM D5185m		6	<u>174</u>	8	
Potassium	ppm	ASTM D5185m	>20	5	7	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.7	12.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	23.2	24.4	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	19.2	20.0	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.6	4.4	5.5	



# **OIL ANALYSIS REPORT**

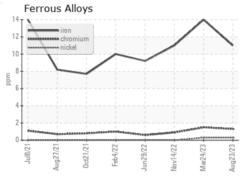


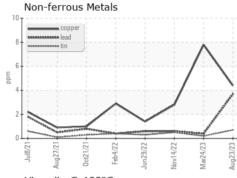


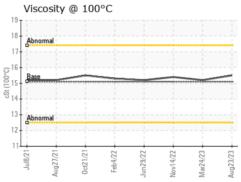
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

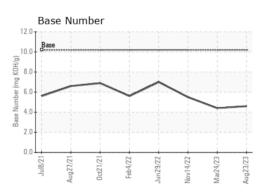
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	15.5	15.2	15.4

## **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10622198 Test Package : FLEET

: GFL0085370 : 05936927

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Aug 2023

Diagnosed : 29 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK

robert.clark@gflenv.com T:

\* - 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)

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