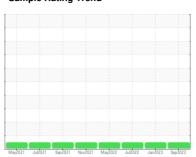


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



NORMAL



Machine Id **744012** 

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.

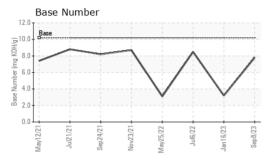
## **Fluid Condition**

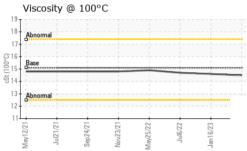
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

( LTR)							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0089708	GFL0066763	GFL0053478	
Sample Date		Client Info		08 Sep 2023	16 Jan 2023	06 Jul 2022	
Machine Age	hrs	Client Info		23775	22197	21054	
Oil Age	hrs	Client Info		1578	1143	237	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	4	16	8	
Chromium	ppm	ASTM D5185m	>4	0	1	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	0	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>9	<1	2	2	
Lead	ppm	ASTM D5185m	>30	0	2	<1	
Copper	ppm	ASTM D5185m	>35	<1	3	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	50	27	4	26	
Barium	ppm	ASTM D5185m	5	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	51	56	51	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	560	596	554	517	
Calcium	ppm	ASTM D5185m	1510	1650	1621	1531	
Phosphorus	ppm	ASTM D5185m	780	793	666	748	
Zinc	ppm	ASTM D5185m	870	981	944	924	
Sulfur	ppm	ASTM D5185m	2040	2978	2790	2601	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+100	3	4	3	
Sodium	ppm	ASTM D5185m		5	12	15	
Potassium	ppm	ASTM D5185m	>20	<1	2	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	11.7	9.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	24.0	20.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	19.1	17.4	
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.8	3.2	8.5	
, ,							



# **OIL ANALYSIS REPORT**

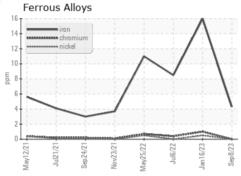


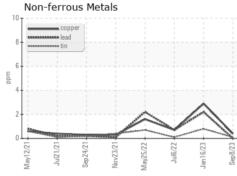


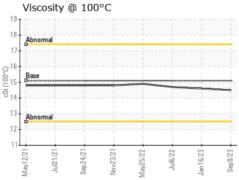
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

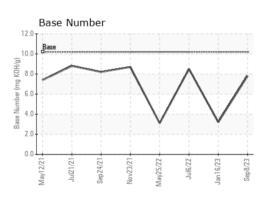
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.6	14.7

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10645788 Test Package : FLEET

: GFL0089708 : 05949829

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Sep 2023

Diagnosed : 15 Sep 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)

F: