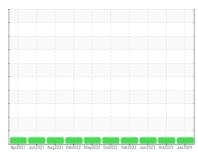


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **944010** 

Component **Natural Gas Engine** 

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

## **Fluid Condition**

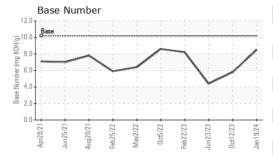
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

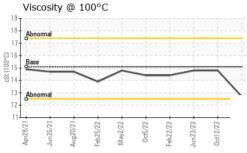
LTR)		Apr2021 Jun2	021 Aug2021 Feb2022 May2	2022 Oct2022 Feb2023 Jun2023 Oct2	023 Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106996	GFL0094259	GFL0077354
Sample Date		Client Info		19 Jan 2024	12 Oct 2023	23 Jun 2023
Machine Age	hrs	Client Info		10072	9516	8696
Oil Age	hrs	Client Info		0	9516	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	23	7	11
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	1	<1
Lead	ppm	ASTM D5185m	>30	1	<1	2
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
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	2	14	10
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	62	48	58
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	882	503	575
Calcium	ppm	ASTM D5185m	1510	1079	1355	1701
Phosphorus	ppm	ASTM D5185m	780	983	715	757
Zinc	ppm	ASTM D5185m	870	1219	864	1010
Sulfur	ppm	ASTM D5185m	2040	3096	2206	2505
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	3	4
Sodium	ppm	ASTM D5185m		12	3	5
Potassium	ppm	ASTM D5185m	>20	10	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.5	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.3	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.9	24.4
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.3	22.1
Daga Number (DNI)	m = 1/011/s	ACTM DOOOC	100	0 5	E O	4 4

Base Number (BN) mg KOH/g ASTM D2896 10.2 8.5



# **OIL ANALYSIS REPORT**

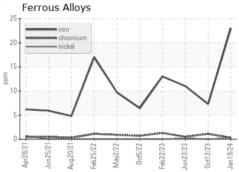


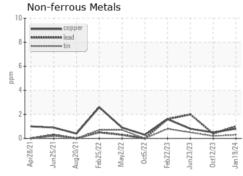


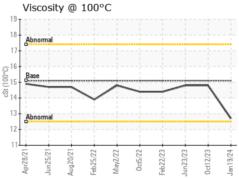
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

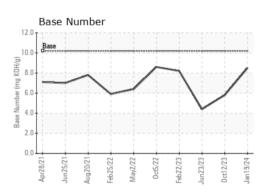
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	12.7	14.8	14.8	

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: GFL0106996 : 06069358 Unique Number : 10846035

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 24 Jan 2024 Diagnosed : 26 Jan 2024

Diagnostician : Sean Felton

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: