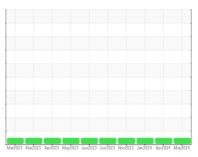


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id **733006** 

**Natural Gas Engine** 

Fluid

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

# 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.

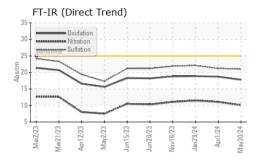
( QTS) Mad 2023 Mad 2023 April 2023 June 2023 June 2023 June 2023 June 2023 June 2024 April 2024 May 2024 Ma						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121827	GFL0106916	GFL0092109
Sample Date		Client Info		30 May 2024	01 Apr 2024	29 Jan 2024
Machine Age	hrs	Client Info		4830	4270	3702
Oil Age	hrs	Client Info		600	600	18232
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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
Iron	ppm	ASTM D5185m	>50	6	6	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	2
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>35	<1	1	2
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	15	11	7
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	51	55	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	574	584	540
Calcium	ppm	ASTM D5185m	1510	1572	1767	1644
Phosphorus	ppm	ASTM D5185m	780	763	709	677
Zinc	ppm	ASTM D5185m	870	929	1009	997
Sulfur	ppm	ASTM D5185m	2040	2690	2950	2436
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	3	3
Sodium	ppm	ASTM D5185m		6	6	4
Potassium	ppm	ASTM D5185m	>20	2	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.1	11.1	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.2	22.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
	3/111011			Current	Thotory	motory
Oxidation	Abs/.1mm	*ASTM D7414		17.8	18.7	18.9

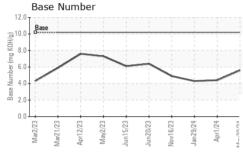
5.6

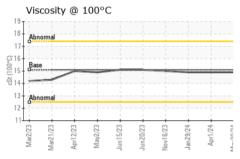
Base Number (BN) mg KOH/g ASTM D2896 10.2



# **OIL ANALYSIS REPORT**



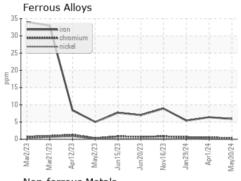


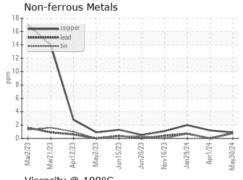


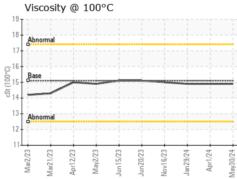
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

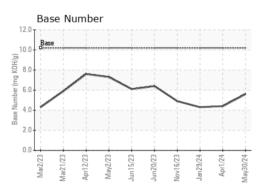
FLUID PROPI	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	14.9	14.9

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Unique Number : 11063306

Test Package : FLEET

: GFL0121827 Lab Number : 06201183

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

Received : 06 Jun 2024 **Tested** : 07 Jun 2024 Diagnosed

: 07 Jun 2024 - Wes Davis

GFL Environmental - 856 - Houston South 8515 Highway 6 South

Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com

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)

T:

F: