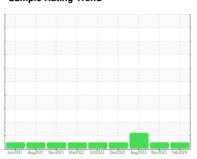


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



946026

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

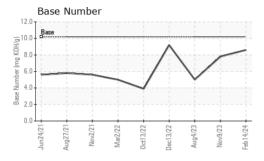
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

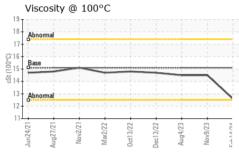
(LTR)		Jun2021 Au	g2021 Nov2021 Mar2022	Oct2022 Dec2022 Aug2023 Nov20	23 Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107000	GFL0094240	GFL0085367
Sample Date		Client Info		14 Feb 2024	09 Nov 2023	04 Aug 2023
Machine Age	mls	Client Info		16400	16092	7413
Oil Age	mls	Client Info		308	2220	7413
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
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	20	4	21
Chromium	ppm	ASTM D5185m	>4	0	<1	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	<1	2	2
Lead	ppm	ASTM D5185m	>30	<1	<1	2
Copper	ppm	ASTM D5185m	>35	<1	1	2
Tin	ppm	ASTM D5185m	>4	0	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	2	26	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	51	83
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	560	840	555	639
Calcium	ppm	ASTM D5185m	1510	1006	1490	1512
Phosphorus	ppm	ASTM D5185m	780	976	795	680
Zinc	ppm	ASTM D5185m	870	1142	933	906
Sulfur	ppm	ASTM D5185m	2040	2844	2532	2746
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	3	13
Sodium	ppm	ASTM D5185m		19	2	4 91
Potassium	ppm	ASTM D5185m	>20	6	2	37
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		1.5	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.4	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	18.8	20.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.2	16.3
Dage Number (DNI)				0.6	7.0	E O

Base Number (BN) mg KOH/g ASTM D2896 10.2 8.6



OIL ANALYSIS REPORT

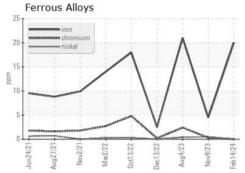


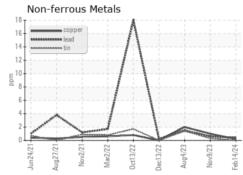


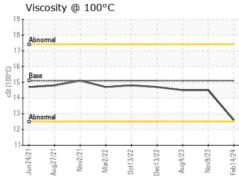
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual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

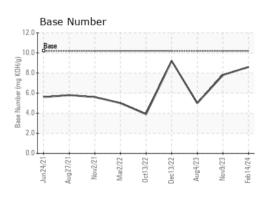
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	12.6	14.5	14.5

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0107000 Lab Number : 06093976 Unique Number: 10886829

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Feb 2024 **Tested** : 21 Feb 2024

Diagnosed : 21 Feb 2024 - Don Baldridge

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK robert.clark@gflenv.com

Test Package : FLEET 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: