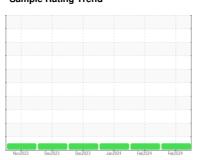


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



Machine Id **834047** 

Component **Natural Gas Engine** 

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

## 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**

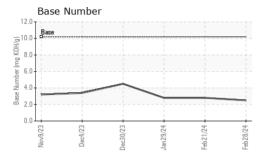
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

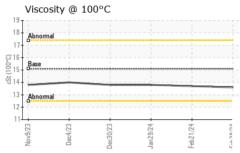
GAL)		Nov2023	Dec2023 Dec2023	3 Jan 2024 Feb 2024	Feb 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114104	GFL0108057	GFL0108123
Sample Date		Client Info		28 Feb 2024	21 Feb 2024	29 Jan 2024
Machine Age	hrs	Client Info		1163	1123	997
Oil Age	hrs	Client Info		1163	1123	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	72	72	91
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	2	2	3
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	5	6	7
Lead	ppm	ASTM D5185m	>30	2	3	4
Copper	ppm	ASTM D5185m	>35	17	20	29
Tin	ppm	ASTM D5185m	>4	2	2	3
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	2	5	6
Barium	ppm	ASTM D5185m	5	3	0	18
Molybdenum	ppm	ASTM D5185m	50	57	65	84
Manganese	ppm	ASTM D5185m	0	14	14	19
Magnesium	ppm	ASTM D5185m	560	984	927	1212
Calcium	ppm	ASTM D5185m	1510	1367	1327	1739
Phosphorus	ppm	ASTM D5185m	780	877	872	1085
Zinc	ppm	ASTM D5185m	870	1059	1057	1361
Sulfur	ppm	ASTM D5185m	2040	2585	2511	3936
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	31	33	45
Sodium	ppm	ASTM D5185m		6	8	5
Potassium	ppm	ASTM D5185m	>20	2	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	13.9	13.6	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1	26.8	26.0
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.3	<b>△</b> 25.4	24.2
Dage Number (DNI)	ma 1/011/-	ACTAI DOCCO	100	0 E	0.0	0.0

Base Number (BN) mg KOH/g ASTM D2896 10.2 2.5



# **OIL ANALYSIS REPORT**

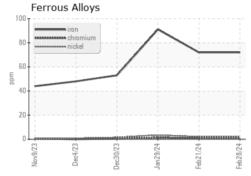


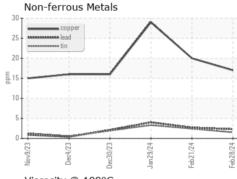


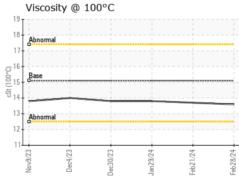
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual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

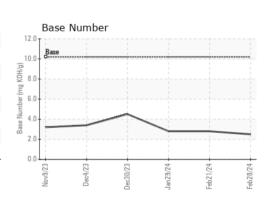
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.6	13.7	13.8

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06107981 Unique Number: 10911478 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0114104 Received : 04 Mar 2024 **Tested** : 05 Mar 2024

Diagnosed : 06 Mar 2024 - Jonathan Hester

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: JOHNNY PEREZ

johnny.perez@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: