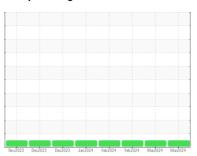


# **OIL ANALYSIS REPORT**

### Sample Rating Trend







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

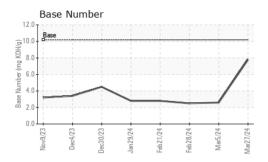
## **Fluid Condition**

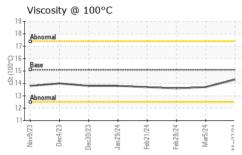
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

( GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114162	GFL0108035	GFL0114104
Sample Date		Client Info		27 Mar 2024	05 Mar 2024	28 Feb 2024
Machine Age	hrs	Client Info		1319	1185	1163
Oil Age	hrs	Client Info		1319	1123	1163
Oil Changed		Client Info		Filtered	N/A	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	14	77	72
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	2	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	6	5
Lead	ppm	ASTM D5185m	>30	0	2	2
Copper	ppm	ASTM D5185m	>35	2	19	17
Tin	ppm	ASTM D5185m	>4	0	2	2
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	32	0	2
Barium	ppm	ASTM D5185m	5	0	0	3
Molybdenum	ppm	ASTM D5185m	50	50	62	57
Manganese	ppm	ASTM D5185m	0	1	14	14
Magnesium	ppm	ASTM D5185m	560	624	896	984
Calcium	ppm	ASTM D5185m	1510	1691	1280	1367
Phosphorus	ppm	ASTM D5185m	780	826	836	877
Zinc	ppm	ASTM D5185m	870	952	1002	1059
Sulfur	ppm	ASTM D5185m	2040	2941	2669	2585
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	31	31
Sodium	ppm	ASTM D5185m		5	6	6
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	8.3	14.3	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	27.2	27.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	26.3	26.3
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	2.6	2.5
()	0 - 0					



# **OIL ANALYSIS REPORT**

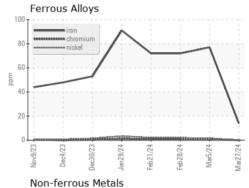


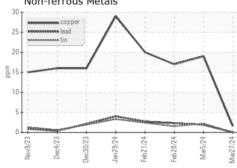


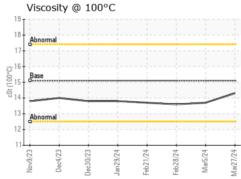
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual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

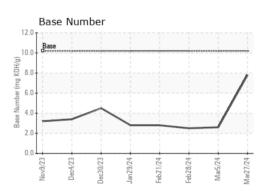
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.3	13.7	13.6	

## **GRAPHS**













Laboratory Sample No.

: GFL0114162 Lab Number : 06135500 Unique Number : 10954965 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Apr 2024

**Tested** : 02 Apr 2024 Diagnosed : 02 Apr 2024 - Wes Davis

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: