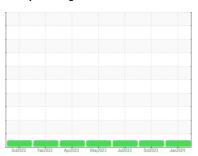


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







# Machine Id 931016

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

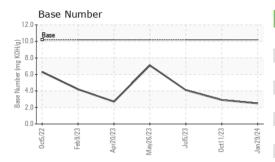
## **Fluid Condition**

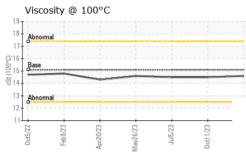
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

( GAL)		Oct2022	Feb2023 Apr2023	May2023 Jul2023 Oct2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0095999	GFL0095985	GFL0071720
Sample Date		Client Info		29 Jan 2024	11 Oct 2023	05 Jul 2023
Machine Age	hrs	Client Info		9000	8147	7382
Oil Age	hrs	Client Info		600	600	300
Oil Changed		Client Info		Changed	Changed	Oil Added
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	15	11	5
Chromium	ppm	ASTM D5185m	>4	1	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	2	1
Lead	ppm	ASTM D5185m	>30	18	15	2
Copper	ppm	ASTM D5185m	>35	3	2	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<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	13	8	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	60	53
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	666	632	552
Calcium	ppm	ASTM D5185m	1510	1769	1674	1612
Phosphorus	ppm	ASTM D5185m	780	900	865	751
Zinc	ppm	ASTM D5185m	870	1170	1107	1025
Sulfur	ppm	ASTM D5185m	2040	2621	2575	2984
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	7	6	4
Sodium	ppm	ASTM D5185m		8	9	6
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.7	12.0	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.0	28.1	25.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.6	24.5	21.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.5	2.9	4.1
, ,						



## **OIL ANALYSIS REPORT**

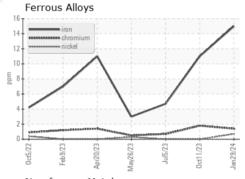


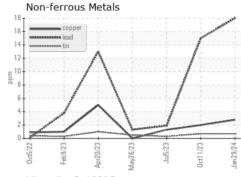


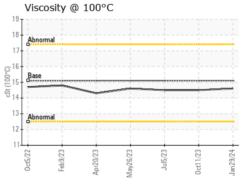
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

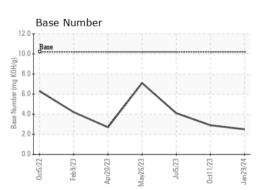
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.5	14.5

## **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10856534 Test Package : FLEET

: GFL0095999 : 06074443

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 : 01 Feb 2024 Diagnosed Diagnostician : Jonathan Hester

GFL Environmental - 883 - Orange City 1378 South Volusia Ave

Orange City, FL US 32763

Contact: JEFF COOPERSMITH JCOOPERSMITH@GFLENV.COM T: (386)503-8468

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)