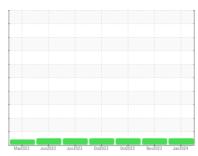


# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id **413075** 

Component **Diesel Engine** 

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

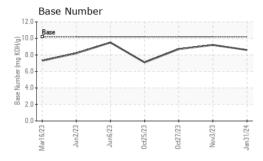
## **Fluid Condition**

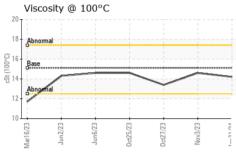
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

( GAL)		Mar2023	Jun2023 Jun2023	0ct2023 0ct2023 Nov2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103977	GFL0100516	GFL0093318
Sample Date		Client Info		31 Jan 2024	03 Nov 2023	27 Oct 2023
Machine Age	hrs	Client Info		3114	2489	2455
Oil Age	hrs	Client Info		3114	2489	2455
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	11	2	7
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	22	4	4
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>85	1	<1	2
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	12	7	18
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m	50	54	56	39
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	560	958	976	815
Calcium	ppm	ASTM D5185m	1510	1048	1075	1169
Phosphorus	ppm	ASTM D5185m	780	1067	1020	773
Zinc	ppm	ASTM D5185m	870	1228	1283 3152	953
Sulfur	ppm	ASTM D5185m	2040	2759		2875
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>30	4	3	10
Sodium	ppm	ASTM D5185m	00	<1	<1	0
Potassium	ppm	ASTM D5185m		52	11	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	5.2	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	17.7	22.0
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	13.7	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	8.6	9.2	8.7



# **OIL ANALYSIS REPORT**

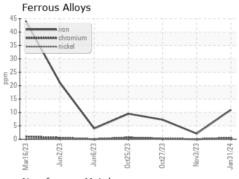


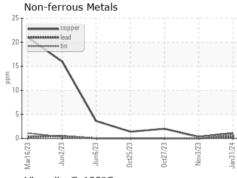


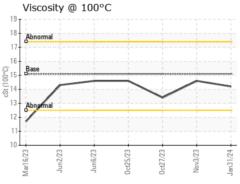
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

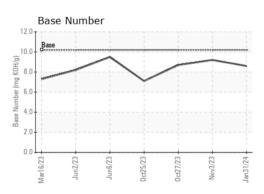
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.6	13.4

## **GRAPHS**













Laboratory Sample No. Lab Number Unique Number : 10861590 Test Package : FLEET

: GFL0103977 : 06079499

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 05 Feb 2024

Diagnosed : 07 Feb 2024 Diagnostician : Sean Felton

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road

Houston, TX US 77050

Contact: Saul Castillo

saul.castillo@gflenv.com T:

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)

F: