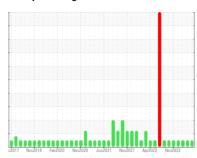


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id 10639C Component

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (36 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.

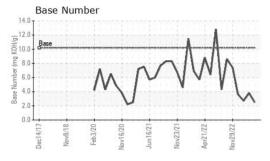
### **Fluid Condition**

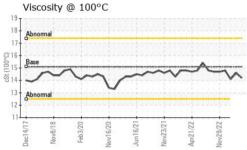
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

2017 Nov2018 Feb2020 Nov2020 Jun2021 Nov2022 Nov2022 Nov2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087741	GFL0082232	GFL0062767
Sample Date		Client Info		01 Sep 2023	22 Jun 2023	16 Mar 2023
Machine Age	hrs	Client Info		17152	16496	0
Oil Age	hrs	Client Info		2328	1672	15924
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	36	15	31
Chromium	ppm	ASTM D5185m	>4	5	2	5
Nickel	ppm	ASTM D5185m	>2	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	4	1	4
Lead	ppm	ASTM D5185m	>30	3	<1	4
Copper	ppm	ASTM D5185m	>35	7	5	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0	5	4
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	64	58	56
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	560	658	564	542
Calcium	ppm	ASTM D5185m	1510	1898	1672	1672
Phosphorus	ppm	ASTM D5185m	780	813	719	689
Zinc	ppm	ASTM D5185m		1051	1034	870
Sulfur	ppm	ASTM D5185m	2040	2915	2766	2647
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	13	12	5
Sodium	ppm	ASTM D5185m		34	16	73
Potassium	ppm	ASTM D5185m	>20	0	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	13.5	10.7	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	22.0	27.9
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.6	19.3	22.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.5	3.8	2.7



# **OIL ANALYSIS REPORT**

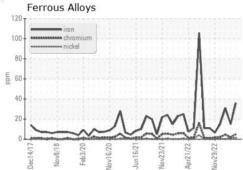


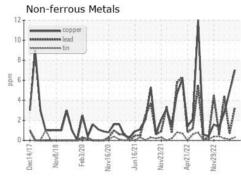


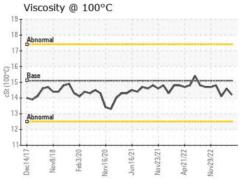
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

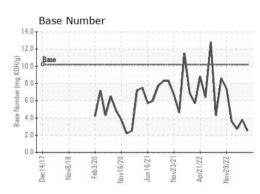
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	14.6	14.1

## **GRAPHS**













Certificate L2367

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

: GFL0087741 : 05942000

: 10632612

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Sep 2023 : 07 Sep 2023 Diagnosed Diagnostician : Don Baldridge

GFL Environmental - 006 - Wilmington

3618 US Highway 421 N Wilmington, NC US 28401 Contact: Eric Wood eric.wood@gflenv.com

> T: (717)723-1956 F: (910)762-6880

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)