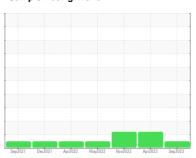


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **744007** 

Component **Natural Gas Engine** 

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

# 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.

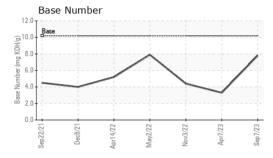
# **Fluid Condition**

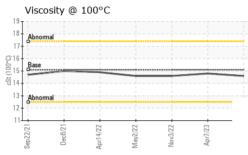
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Sepzuzi	Deczuzi Aprzuzz	mayzozz novzozz mprzozs	Sep2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089736	GFL0077338	GFL0063864
Sample Date		Client Info		07 Sep 2023	07 Apr 2023	03 Nov 2022
Machine Age	hrs	Client Info		5072	4146	3126
Oil Age	hrs	Client Info		1946	1020	1183
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	4	18	20
Chromium	ppm	ASTM D5185m	>4	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	6	2
Lead	ppm	ASTM D5185m	>30	<1	2	2
Copper	ppm	ASTM D5185m	>35	<1	<1	1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
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	27	3	5
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	49	56	58
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	560	614	543	521
Calcium	ppm	ASTM D5185m	1510	1585	1528	1634
Phosphorus	ppm	ASTM D5185m	780	801	661	688
Zinc	ppm	ASTM D5185m	870	1022	935	966
Sulfur	ppm	ASTM D5185m	2040	3131	2507	2864
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	4	4
Sodium	ppm	ASTM D5185m		4	<u>▲</u> 142	<b>1</b> 00
Potassium	ppm	ASTM D5185m	>20	3	24	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.1	11.2	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	23.5	25.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	18.5	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.8	3.3	4.4



# **OIL ANALYSIS REPORT**



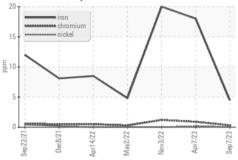


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

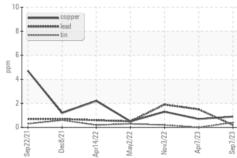
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.8	14.6

# **GRAPHS**

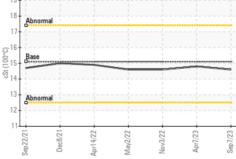
### Ferrous Alloys



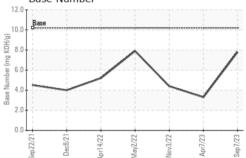
## Non-ferrous Metals















Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10642855 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0089736 : 05946896

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 11 Sep 2023 Diagnosed : 12 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK robert.clark@gflenv.com

\* - 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: