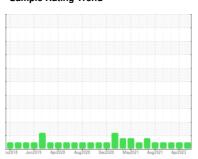


# **OIL ANALYSIS REPORT**

## **Sample Rating Trend**









Machine Id 1023AC Component Natural Gas Engine Fluid

PETRO CANADA DURON GEO LD 15W40 (11 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**

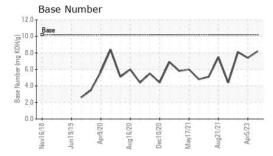
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

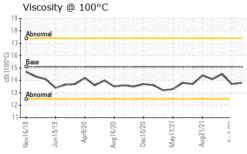
GEO LD 15W40 (	II GAL)	3v2018 Jun2	019 Apr2020 Aug2020	0 Dec2020 May2021 Aug2021	Apr2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0087211	GFL0070215	GFL0047151
Sample Date		Client Info		07 Jul 2023	05 Apr 2023	21 Jul 2022
Machine Age	hrs	Client Info		27513	27550	36198
Oil Age	hrs	Client Info		1200	0	27463
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAI	LS	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>50	22	15	9
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	2
Aluminum	ppm	ASTM D5185m	>9	2	2	3
Lead	ppm	ASTM D5185m	>30	<1	0	2
Copper	ppm	ASTM D5185m	>35	2	<1	2
Tin	ppm	ASTM D5185m	>4	<1	0	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	50	38	38	104
Barium	ppm	ASTM D5185m	5	0	0	<1
Molybdenum	ppm	ASTM D5185m	50	51	47	106
Manganese	ppm	ASTM D5185m	0	1	1	1
Magnesium	ppm	ASTM D5185m	560	502	457	638
Calcium	ppm	ASTM D5185m	1510	1426	1299	1307
Phosphorus	ppm	ASTM D5185m	780	679	632	651
Zinc	ppm	ASTM D5185m	870	849	728	770
Sulfur	ppm	ASTM D5185m	2040	2742	1940	3111
CONTAMINA	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	10	9	18
Sodium	ppm	ASTM D5185m		10	8	6
Potassium	ppm	ASTM D5185m	>20	4	0	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0.1	0
Vitration	Abs/cm	*ASTM D7624	>20	7.5	6.8	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.5	21.9
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.5	15.1
	110111					

Base Number (BN) mg KOH/g ASTM D2896 10.2 8.2



## **OIL ANALYSIS REPORT**

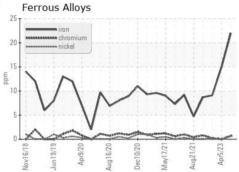


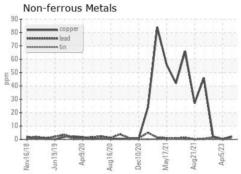


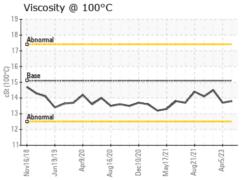
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	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

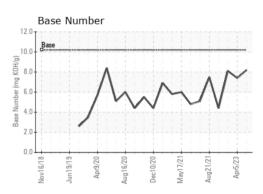
FLUID PROPI	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	13.7	14.5

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10550641 Test Package : FLEET

: GFL0087211 : 05894831

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jul 2023 Diagnosed : 11 Jul 2023

Diagnostician : Wes Davis

7801 East Truman Road Kansas City, MO US 64126 Contact: Robert Hart

GFL Environmental - 836 - Kansas City Hauling

rhart@gflenv.com T: (580)461-1509

\* - 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)