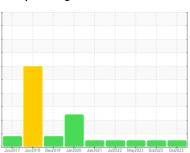


# **OIL ANALYSIS REPORT**

# Sample Rating Trend









Machine Id 9170 Component Natural Gas Engine Fluid

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

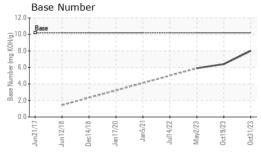
# **Fluid Condition**

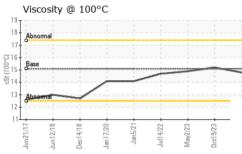
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GEO ED 131140 (	Junž017 Junž018 Dec2018 Janž020 Janž021 Juž022 May2023 Oct2023 Oct2023					
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100521	GFL0093301	GFL0074210
Sample Date		Client Info		31 Oct 2023	19 Oct 2023	02 May 2023
Machine Age	hrs	Client Info		16069	227504	14743
Oil Age	hrs	Client Info		16069	227504	14743
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	19	14
Chromium	ppm	ASTM D5185m	>5	<1	1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	5	5
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>150	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Beryllium	ppm	ASTM D5185m				
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	23	13	6
Barium	ppm	ASTM D5185m	5	5	3	0
Molybdenum	ppm	ASTM D5185m	50	51	59	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	595	626	766
Calcium	ppm	ASTM D5185m	1510	1401	1605	1397
Phosphorus	ppm	ASTM D5185m	780	803	838	876
Zinc	ppm	ASTM D5185m	870	921	1038	1143
Sulfur	ppm	ASTM D5185m	2040	2511	2711	3226
Lithium	ppm	ASTM D5185m				
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	4
Sodium	ppm	ASTM D5185m		<1	4	7
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	7.3	10.1	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	21.5	20.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.8	16.9
Base Number (BN)		ASTM D2896		8.0	6.4	5.9
(211)		==030				0.0



# **OIL ANALYSIS REPORT**

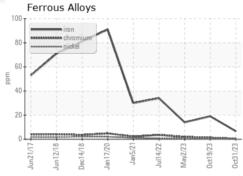


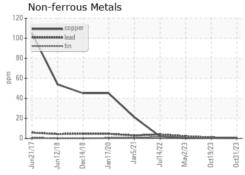


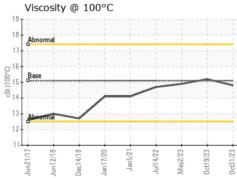
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

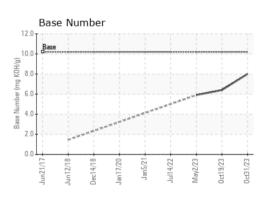
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	15.2	14.9	

# **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10728659 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0100521 : 06000299

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

Received Diagnosed Diagnostician : Wes Davis

: 07 Nov 2023 : 07 Nov 2023 GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road Houston, TX

US 77050 Contact: Saul Castillo

saul.castillo@gflenv.com T:

\* - 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: