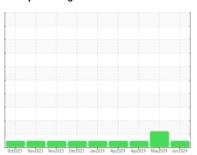


# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id 834055 **Natural Gas 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 oil.

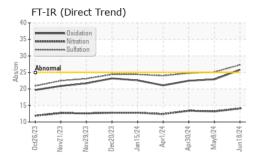
## **Fluid Condition**

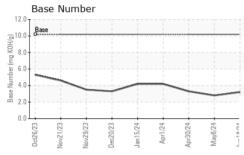
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

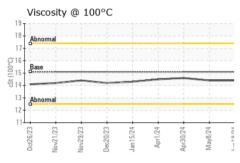
I GEO LD 15W40 ( GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122893	GFL0118791	GFL0118846
Sample Date		Client Info		18 Jun 2024	08 May 2024	30 Apr 2024
Machine Age	hrs	Client Info		1366	1170	1122
Oil Age	hrs	Client Info		1366	1170	1122
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	76	61	60
Chromium	ppm	ASTM D5185m	>4	2	2	2
Nickel	ppm	ASTM D5185m	>2	2	1	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>9	7	5	5
Lead	ppm	ASTM D5185m	>30	3	2	4
Copper	ppm	ASTM D5185m	>35	20	20	16
Tin	ppm	ASTM D5185m	>4	3	3	4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	8	4
Barium	ppm	ASTM D5185m	5	1	<1	2
Molybdenum	ppm	ASTM D5185m	50	63	57	53
Manganese	ppm	ASTM D5185m	0	15	13	13
Magnesium	ppm	ASTM D5185m	560	880	802	816
Calcium	ppm	ASTM D5185m	1510	1547	1405	1541
Phosphorus	ppm	ASTM D5185m	780	881	766	827
Zinc	ppm	ASTM D5185m	870	1087	981	1040
Sulfur	ppm	ASTM D5185m	2040	2874	2596	2876
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	25	24	21
Sodium	ppm	ASTM D5185m		8	7	7
Potassium	ppm	ASTM D5185m	>20	7	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	14.1	13.2	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3	25.1	24.8
ELLUD DEODAI			12 24 //			D. m. chaird
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414	>25	current 25.8	22.9	22.5
FLUID DEGRAL Oxidation Base Number (BN)	Abs/.1mm		>25			



## **OIL ANALYSIS REPORT**



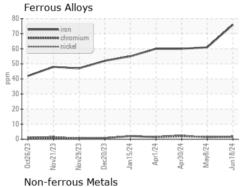


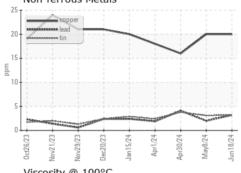


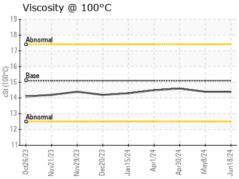
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

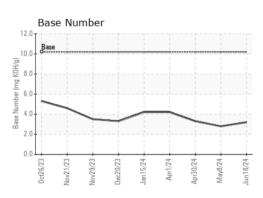
FLUID PROPI	ERIIES	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.4	14.6

## **GRAPHS**













Certificate 12367

Sample No. Lab Number : 06217630

Test Package : FLEET

: GFL0122893

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

Unique Number : 11090494

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** 

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Don Baldridge

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701

Contact: SARA PATRICK spatrick@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)

Report Id: GFL837 [WUSCAR] 06217630 (Generated: 06/25/2024 13:02:59) Rev: 1

Submitted By: JEREMY BROWN

T:

F: