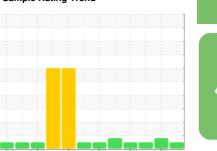


## **OIL ANALYSIS REPORT**

## **Sample Rating Trend**







Machine Id 9167 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

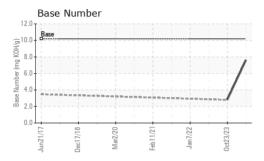
## **Fluid Condition**

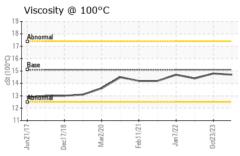
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GEO LD 15W40 (-	GAL)	Jun2017	Dec2018 Mar2020	Feb2021 Jan2022 0	ct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106133	GFL0078677	GFL0053126
Sample Date		Client Info		14 Feb 2024	23 Oct 2023	21 Jun 2022
Machine Age	hrs	Client Info		16081	15539	185416
Oil Age	hrs	Client Info		542	654	0
Oil Changed		Client Info		Changed	Changed	N/A
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
Iron	ppm	ASTM D5185m	>50	19	<b>▲</b> 53	30
Chromium	ppm	ASTM D5185m	>5	1	4	2
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m	>5	<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	22	13
Lead	ppm	ASTM D5185m	>40	<1	1	1
Copper	ppm	ASTM D5185m	>150	1	6	4
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Beryllium	ppm	ASTM D5185m				0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	20	3	6
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	46	54	53
Manganese	ppm	ASTM D5185m	0	0	1	<1
Magnesium	ppm	ASTM D5185m	560	635	528	545
Calcium	ppm	ASTM D5185m	1510	1536	1567	1563
Phosphorus	ppm	ASTM D5185m	780	793	645	651
Zinc	ppm	ASTM D5185m	870	977	957	865
Sulfur	ppm	ASTM D5185m	2040	2421	2149	1979
Lithium	ppm	ASTM D5185m				<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	5
Sodium	ppm	ASTM D5185m		3	19	8
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	8.2	11.7	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	23.1	24.8
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	18.6	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.6	2.8	
_ 3.30 . TaIDOI (DIV)	9					



## **OIL ANALYSIS REPORT**



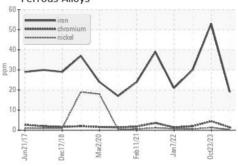


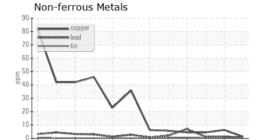
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

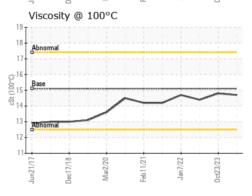
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.8	14.4

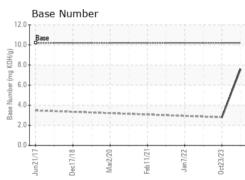
## **GRAPHS**















Laboratory Sample No. Lab Number : 06093508

Test Package : FLEET

: GFL0106133 Unique Number: 10886361

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Feb 2024 **Tested** 

: 20 Feb 2024 Diagnosed : 20 Feb 2024 - Wes Davis

GFL Environmental - 152 - Jacksonville 7580 PHILIPS HWY

Jacksonville, FL US 32256

T: (904)252-0013

Contact: Chris Smith chris.smith@gflenv.com

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)

Report Id: GFL152 [WUSCAR] 06093508 (Generated: 02/20/2024 18:41:24) Rev: 1

Submitted By: Eric Thomas