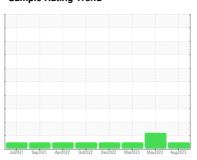


## **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



# 949002

Component

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (

### 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

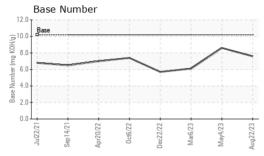
### **Fluid Condition**

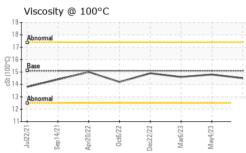
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

( GAL)		Jul2021 8	Sep2021 Apr2022 Oct20	22 Dec2022 Mar2023 May2023	3 Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0082065	GFL0078613	GFL0065642
Sample Date		Client Info		22 Aug 2023	04 May 2023	06 Mar 2023
Machine Age	hrs	Client Info		10290	9740	9303
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	16	9
Chromium	ppm	ASTM D5185m	>4	<1	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	5	7	3
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m	>35	1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	116	12	10
Barium	ppm	ASTM D5185m	5	7	0	2
Molybdenum	ppm	ASTM D5185m	50	117	70	52
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	560	654	601	524
Calcium	ppm	ASTM D5185m	1510	1234	1677	1579
Phosphorus	ppm	ASTM D5185m	780	700	794	709
Zinc	ppm	ASTM D5185m	870	832	1013	948
Sulfur	ppm	ASTM D5185m	2040	3295	3041	2361
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	6	4
Sodium	ppm	ASTM D5185m		50	<b>▲</b> 483	13
Potassium	ppm	ASTM D5185m	>20	1	6	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	3.9	10.1	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	20.1	20.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	17.1	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.6	8.6	6.1
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### **OIL ANALYSIS REPORT**



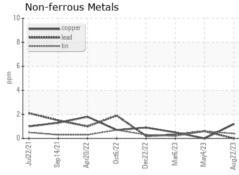


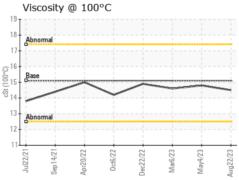
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

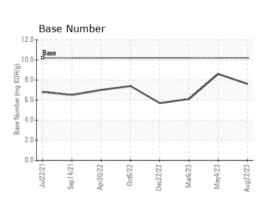
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.8	14.6

### **GRAPHS**

# Ferrous Alloys











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10619456 Test Package : FLEET

: GFL0082065 : 05934185

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Aug 2023 Diagnosed

: 25 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 152 - Jacksonville

7580 PHILIPS HWY Jacksonville, FL US 32256

Contact: Eric Thomas ethomas@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)

T:

F: