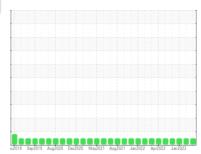


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



3817C

Component **Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (8 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

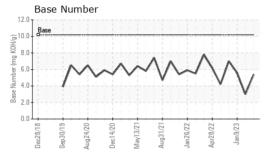
### **Fluid Condition**

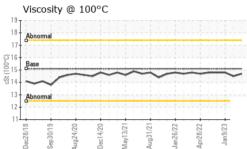
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(O GAL)  #2016 Sep2019 Aug/2020 Dec/2020 Miny/2021 Aug/2021 Jan/2022 Apr/2022 Jan/2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0071819	GFL0071800	GFL0052779
Sample Date		Client Info		13 Jul 2023	13 Apr 2023	09 Jan 2023
Machine Age	hrs	Client Info		10445	9907	9314
Oil Age	hrs	Client Info		538	1099	506
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	6	9	5
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	0	0
Lead	ppm	ASTM D5185m	>30	<1	6	1
Copper	ppm	ASTM D5185m	>35	<1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	12	9	12
Barium	ppm	ASTM D5185m	5	<1	2	0
Molybdenum	ppm	ASTM D5185m	50	63	58	54
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	681	593	551
Calcium	ppm	ASTM D5185m	1510	1879	1701	1649
Phosphorus	ppm	ASTM D5185m	780	877	790	758
Zinc	ppm	ASTM D5185m		1146	1033	989
Sulfur	ppm	ASTM D5185m	2040	3384	2462	2165
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	6	5
Sodium	ppm	ASTM D5185m		8	6	6
Potassium	ppm	ASTM D5185m	>20	3	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.7	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	24.6	21.5
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	21.6	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.4	3.0	5.6



# **OIL ANALYSIS REPORT**

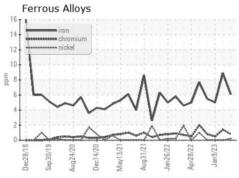


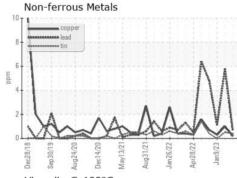


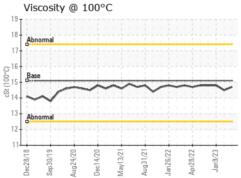
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

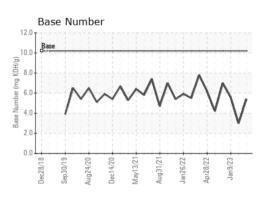
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.5	14.8

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0071819 : 05899282

: 10560638

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jul 2023

Diagnosed Diagnostician : Wes Davis

: 17 Jul 2023

GFL Environmental - 331 - Columbus 180 Ada Moore Rd

Columbus, NC US 28722 Contact: Matt Segars

matt.segars@gflenv.com T: (800)207-6618 F: (252)617-2494

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)