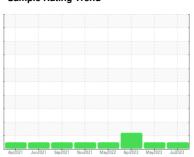


# **OIL ANALYSIS REPORT**

### **Sample Rating Trend**



NORMAL



729068-362012

Component

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (--- LTR)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment:

Top Up Amount: 4 LTR )

#### 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.

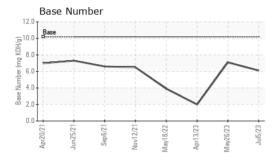
LTR)		Apr2021	lun 2021 Sec 2021 Nov 20	21 M=2022 Apr2023 M=2023	2 1,12022	
SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0071713	GFL0071753	GFL0058454
Sample Date		Client Info		05 Jul 2023	26 May 2023	13 Apr 2023
Machine Age	hrs	Client Info		10951	10672	10386
Oil Age	hrs	Client Info		300	600	1200
Oil Changed		Client Info		Oil Added	Oil Added	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METAL	_S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	7	3	12
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	<1	2
Lead	ppm	ASTM D5185m	>30	1	2	12
Copper	ppm	ASTM D5185m	>35	1	0	1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	50	14	28	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	52	51	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	566	535	587
Calcium	ppm	ASTM D5185m	1510	1599	1554	1626
Phosphorus	ppm	ASTM D5185m	780	777	781	741
Zinc	ppm	ASTM D5185m		1026	992	1013
Sulfur	ppm	ASTM D5185m	2040	3089	3080	3022
CONTAMINA	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	3	6	2
Sodium	ppm	ASTM D5185m		7	4	16
Potassium	ppm	ASTM D5185m	>20	2	2	0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	8.6	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.8	23.8
FLUID DEGRA	NOITAG	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	17.2	20.3
Deer Missels and CAN		A OTA A DOCCO	400	0.4	7 4	A 0.0

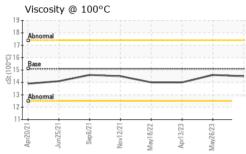
6.1

Base Number (BN) mg KOH/g ASTM D2896 10.2



# **OIL ANALYSIS REPORT**



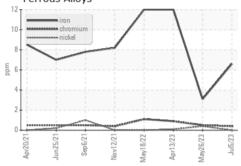


VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

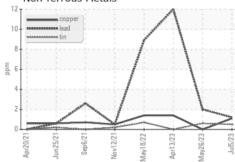
FLUID PROPERTIES		method			history 1	history 2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.6	14.0	

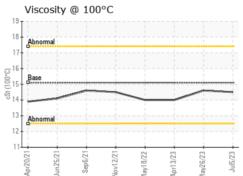
## **GRAPHS**

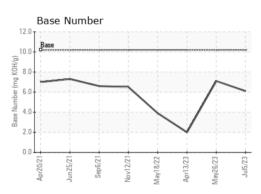
## Ferrous Alloys















Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10548447

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0071713 : 05892637

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

Received : 07 Jul 2023 Diagnosed : 10 Jul 2023 Diagnostician : Sean Felton GFL Environmental - 883 - Orange City 1378 South Volusia Ave

Orange City, FL US 32763

Contact: Kenneth Pearce kpearce@gflenv.com

> T: F:

\* - 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)