

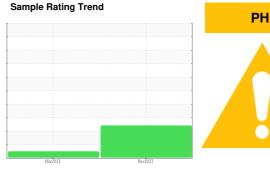
# **OIL ANALYSIS REPORT**

Machine Id **831006** 

Component

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (



## **DIAGNOSIS**

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

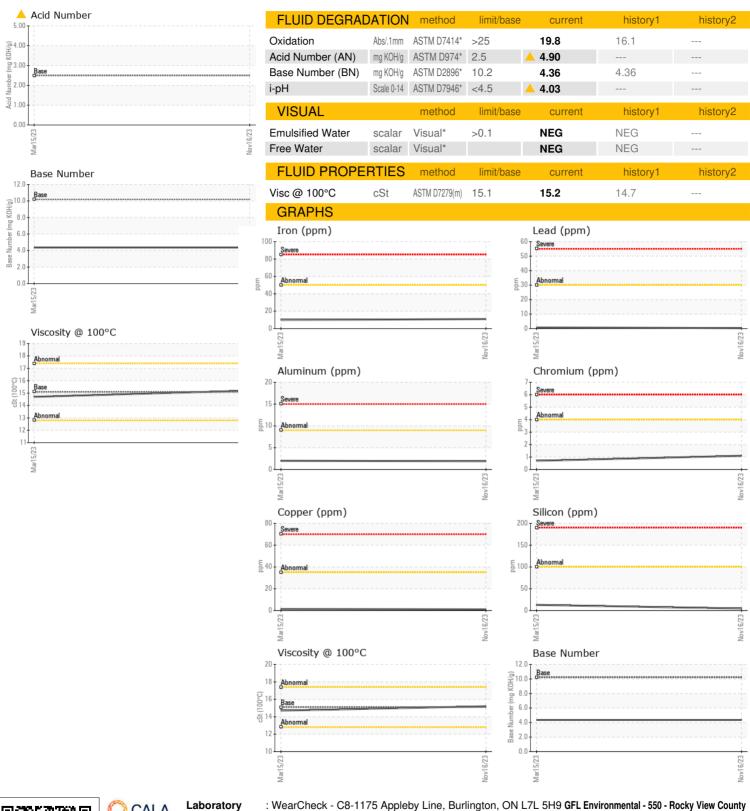
### Fluid Condition

The i-pH level is abnormally low. The AN level is above the recommended limit. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable.

SAMPLE INFOF Sample Number Sample Date Machine Age Oil Age	kms kms	method Client Info Client Info Client Info	limit/base	current GFL0091596	history1	history2
Sample Date Machine Age		Client Info		GFI 0091596	OEL 0044EE4	
Machine Age				G. 2000 .000	GFL0044551	
		Client Info		16 Nov 2023	15 Mar 2023	
Oil Age	kms			63220	4248	
		Client Info		0	1200	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>50	11	10	
Chromium	ppm	ASTM D5185(m)	>4	1	<1	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Γitanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	<1	0	
Aluminum	ppm	ASTM D5185(m)	>9	2	2	
_ead	ppm	ASTM D5185(m)	>30	<1	<1	
Copper	ppm	ASTM D5185(m)	>35	1	2	
- in	ppm	ASTM D5185(m)	>4	0	<1	
Antimony	ppm	ASTM D5185(m)		0	0	
/anadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	7	9	
Barium	ppm	ASTM D5185(m)	5	<1	0	
Molybdenum	ppm	ASTM D5185(m)	50	51	53	
Manganese	ppm	ASTM D5185(m)	0	<1	<1	
Magnesium	ppm	ASTM D5185(m)	560	532	543	
Calcium	ppm	ASTM D5185(m)	1510	1604	1593	
Phosphorus	ppm	ASTM D5185(m)	780	657	734	
Zinc	ppm	ASTM D5185(m)	870	910	894	
Sulfur	ppm	ASTM D5185(m)	2040	1917	2001	
_ithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	5	13	
Sodium	ppm	ASTM D5185(m)		7	2	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	
Nitration	Abs/cm	ASTM D7624*	>20	11.1	9.2	
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	23.4	



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0091596 : 02600457 : 5685537

Received

Diagnosed

: 05 Dec 2023 Diagnostician : Kevin Marson **Test Package**: MOB 2 (Additional Tests: i-pH, TAN Auto, TAN Man)

: 04 Dec 2023

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

calgarymaintenance@gflenv.com

Contact/Location: GFL Calgary - GFL550

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (403)369-6163

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