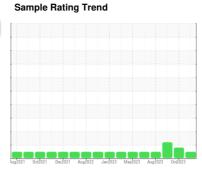


# **OIL ANALYSIS REPORT**

DRUMRIGHT Unit 01 DB120101E

**Diesel Engine** 

## PETRO CANADA DURON MONOGRADE HD 40W (250 GAL)





## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

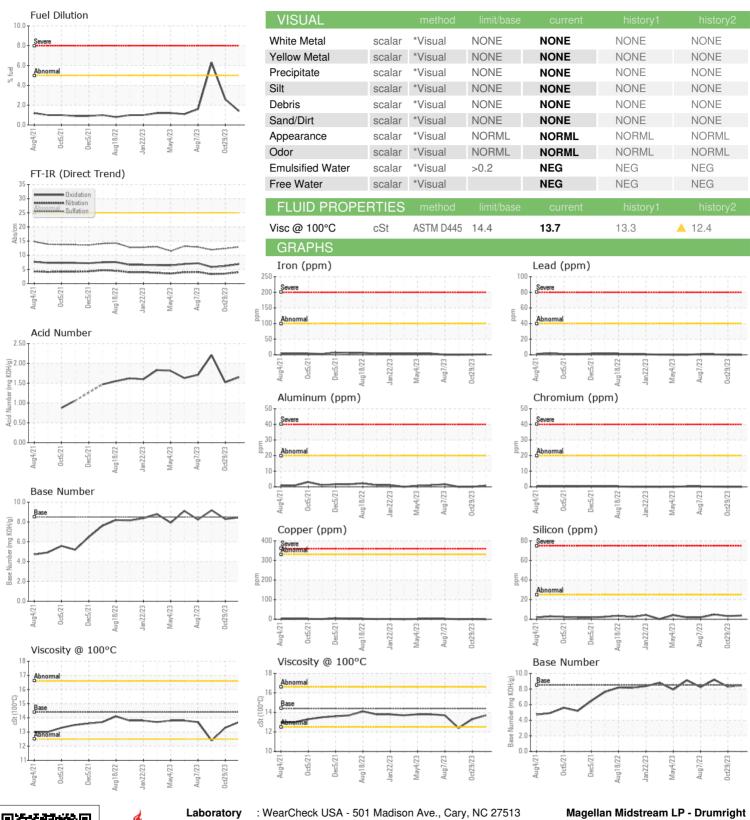
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	MATION	mothed	lipoit/le e e	ou week	biotomit	biotom 0
SAMPLE INFORI	WATION		limit/base	current	history1	history2
Sample Number		Client Info		PCA0052188	PCA0052187	PCA0052186
Sample Date		Client Info		02 Jul 2024	29 Oct 2023	08 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	1	<1	0
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	1	<1
Tin	ppm	ASTM D5185m	>15	<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		1	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		965	876	889
Calcium	ppm	ASTM D5185m		1079	950	967
Phosphorus	ppm	ASTM D5185m		1230	965	1119
Zinc	ppm	ASTM D5185m		1393	1225	1307
Sulfur	ppm	ASTM D5185m		3828	2997	3274
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	5
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Fuel	%	ASTM D3524	>5	1.4	<u>^</u> 2.6	<b>△</b> 6.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>2	0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	4.0	3.5	3.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	12.9	12.4	11.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.9	6.2	5.8
Acid Number (AN)	mg KOH/g	ASTM D8045		1.65	1.52	2.21
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.45	8.29	9.18



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number : 06227679 Unique Number : 11111172

: PCA0052188

Received **Tested** 

: 03 Jul 2024 : 08 Jul 2024 Diagnosed

: 08 Jul 2024 - Doug Bogart Test Package : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

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

55200 South Hwy 16 Drumright, OK US 74030

Contact: Todd Clark Todd.Clark@magellanlp.com

T: (918)619-3013 F: