

## **OIL ANALYSIS REPORT**

### Area **ALBERT LEA** Unit 04 DB010104E

**Natural Gas Engine** 

## PETRO CANADA DURON MONOGRADE HD 40W (350 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: 12 gallons of lube oil added this month.)

#### Wear

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.



SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124430	PCA0106496	PCA0106494
Sample Date		Client Info		30 Jun 2024	29 May 2024	29 Apr 2024
Machine Age	hrs	Client Info		15529	15518	15503
Oil Age	hrs	Client Info		15529	15518	15503
Oil Changed		Client Info		Not Changd	Oil Added	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	6	5	4
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	1	2	<1
Lead	ppm	ASTM D5185m	>30	<1	<1	0
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		2	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		884	867	982
Calcium	ppm	ASTM D5185m		1037	990	1098
Phosphorus	ppm	ASTM D5185m		1195	1110	1239
Zinc	ppm	ASTM D5185m		1341	1286	1413
Sulfur	ppm	ASTM D5185m		3686	3388	3947
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	5	2
Sodium	ppm	ASTM D5185m		2	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Fuel	%	ASTM D3524	>4.0	1.2	1.1	1.1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	3.9	3.8	4.1
Sulfation	Abo/ 1mm	*ACTM D741E	. 20	10.0	10.0	10 E

Sullation	ADS/. IIIIII	ASTIVI D7415	>30	13.2	13.0	13.5
FLUID DEGRAD	ATION	method				history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.6	6.7	7.2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.63	1.71	1.65
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.53	8.29	7.98



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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)

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Certificate 12367

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