

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



PONCA CITY Unit 02 DB130102E

Natural Gas Engine

PETRO CANADA DURON MONOGRADE HD 40W (350 GAL)

DIAGNOSIS

Recommendation

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.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0045788	PCA0045784	PCA0045782
Sample Date		Client Info		01 Aug 2023	06 Jul 2023	05 Jun 2023
Machine Age	hrs	Client Info		20473	20119	19633
Oil Age	hrs	Client Info		20473	20119	19633
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	5	5
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	3	3	1
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
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	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		988	965	1006
Calcium	ppm	ASTM D5185m		1191	1088	1125
Phosphorus	ppm	ASTM D5185m		1240	1208	1210
Zinc	ppm	ASTM D5185m		1445	1456	1481
Sulfur	ppm	ASTM D5185m		3489	4059	3918
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	3	2	3
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Fuel	%	ASTM D3524	>4.0	1.4	1.4	1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.1	4.2	4.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.3	13.7	14.1
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.1	7.2	8.7
Acid Number (AN)	mg KOH/g	ASTM D8045		1.78	1.69	1.73
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.54	9.89	10.09
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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

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

: PCA0045788 : 05918787 : 10590701

: 09 Aug 2023 Diagnosed

Received

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.

Diagnostician : Don Baldridge Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Contact: Jake Daniel Jacob.Daniel@magellanlp.com

Magellan Midstream LP - Ponca City

3990 South Union Street

Ponca City, OK

US 74601

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 08 Aug 2023