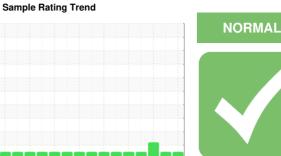


OIL ANALYSIS REPORT



PONCA CITY Unit 02 DB130102E

Natural Gas Engine

PETRO CANADA DURON MONOGRADE HI

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

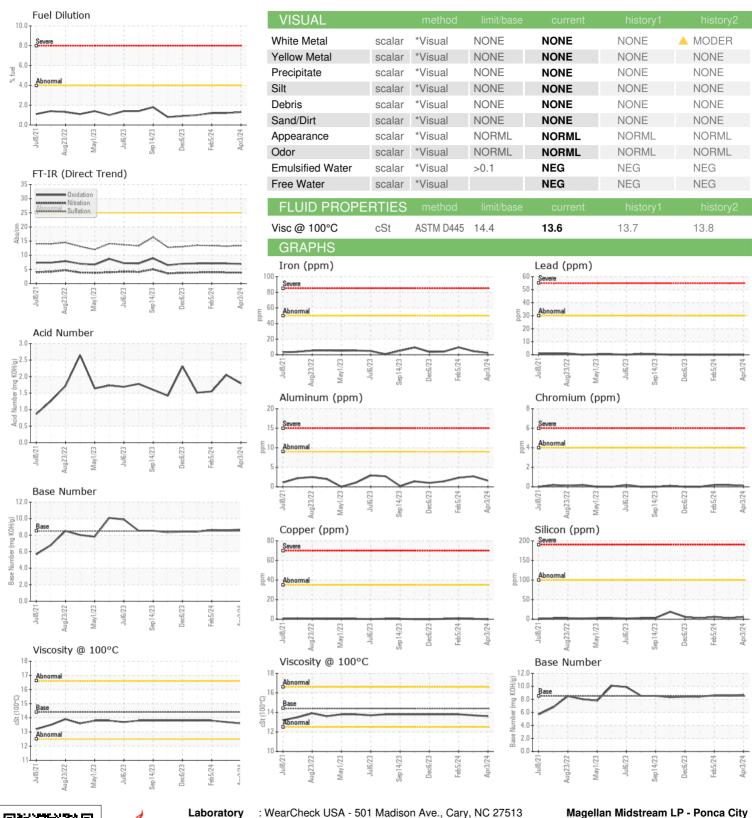
Fluid Condition

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.

D 40W (350 GAL	.)	Jul2021 Aug	2022 May2023 Jul202	3 Sep2023 Dec2023 Feb203	24 Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100349	PCA0100340	PCA0100325
Sample Date		Client Info		03 Apr 2024	05 Mar 2024	05 Feb 2024
Machine Age	hrs	Client Info		2500	1973	1612
Oil Age	hrs	Client Info		2500	1973	1612
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	4	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	3	2
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>35	0	<1	1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	3
ADDITIVES		method	limit/base	current	history1	history2
D		A OTA A DE LOS			0	_
Boron	ppm	ASTM D5185m		<1	2	5
Boron Barium	ppm	ASTM D5185m ASTM D5185m		<1 0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	0	0 5
Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1	0 1 0	0 5 0
Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 935	0 1 0 974	0 5 0 1525
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 935 1084	0 1 0 974 1144	0 5 0 1525 1626
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 935 1084 1203	0 1 0 974 1144 1314	0 5 0 1525 1626 1683
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 935 1084 1203 1392	0 1 0 974 1144 1314 1424	0 5 0 1525 1626 1683 2192
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >+100	0 <1 <1 935 1084 1203 1392 3744	0 1 0 974 1144 1314 1424 3624	0 5 0 1525 1626 1683 2192 4983
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 935 1084 1203 1392 3744 current	0 1 0 974 1144 1314 1424 3624 history1	0 5 0 1525 1626 1683 2192 4983 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m		0 <1 <1 935 1084 1203 1392 3744 current 6	0 1 0 974 1144 1314 1424 3624 history1	0 5 0 1525 1626 1683 2192 4983 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	ASTM D5185m	>+100	0 <1 <1 935 1084 1203 1392 3744 current 6 <1	0 1 0 974 1144 1314 1424 3624 history1 3	0 5 0 1525 1626 1683 2192 4983 history2 6 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m	>+100 >20	0 <1 <1 935 1084 1203 1392 3744 current 6 <1 <1	0 1 0 974 1144 1314 1424 3624 history1 3 0	0 5 0 1525 1626 1683 2192 4983 history2 6 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm	ASTM D5185m	>+100 >20 >4.0	0 <1 <1 935 1084 1203 1392 3744 current 6 <1 <1 1.3	0 1 0 974 1144 1314 1424 3624 history1 3 0 1	0 5 0 1525 1626 1683 2192 4983 history2 6 0 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm	ASTM D5185m	>+100 >20 >4.0 limit/base	0 <1 <1 935 1084 1203 1392 3744 current 6 <1 <1 1.3 current	0 1 0 974 1144 1314 1424 3624 history1 3 0 1 1.2	0 5 0 1525 1626 1683 2192 4983 history2 6 0 2 1.2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m ASTM D7844	>+100 >20 >4.0 limit/base	0 <1 <1 935 1084 1203 1392 3744 current 6 <1 <1 1.3 current 0.1	0 1 0 974 1144 1314 1424 3624 history1 3 0 1 1.2 history1	0 5 0 1525 1626 1683 2192 4983 history2 6 0 2 1.2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7624	>+100 >20 >4.0 limit/base	0 <1 <1 935 1084 1203 1392 3744 current 6 <1 <1 1.3 current 0.1 3.9	0 1 0 974 1144 1314 1424 3624 history1 3 0 1 1.2 history1 0.1 3.9	0 5 0 1525 1626 1683 2192 4983 history2 6 0 2 1.2 history2 0.1 4.0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7624	>+100 >20 >4.0 limit/base >20 >30	0 <1 <1 935 1084 1203 1392 3744 current 6 <1 <1 1.3 current 0.1 3.9 13.4	0 1 0 974 1144 1314 1424 3624 history1 3 0 1 1.2 history1 0.1 3.9 13.2	0 5 0 1525 1626 1683 2192 4983 history2 6 0 2 1.2 history2 0.1 4.0 13.4
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAI	ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D76185m ASTM D76185m ASTM D76185m ASTM D7844 *ASTM D76185m ASTM D76185m ASTM D7844	>+100 >20 >4.0 limit/base >20 >30 limit/base	0 <1 <1 935 1084 1203 1392 3744 current 6 <1 <1 1.3 current 0.1 3.9 13.4 current	0 1 0 974 1144 1314 1424 3624 history1 3 0 1 1.2 history1 0.1 3.9 13.2 history1	0 5 0 1525 1626 1683 2192 4983 history2 6 0 2 1.2 history2 0.1 4.0 13.4 history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0100349 Lab Number : 06157844 Unique Number: 10993267

Received : 23 Apr 2024 **Tested**

Diagnosed Test Package: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

: 25 Apr 2024 : 25 Apr 2024 - Don Baldridge

3990 South Union Street Ponca City, OK US 74601

Contact: Jake Daniel Jacob.Daniel@magellanlp.com T:

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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