

OIL ANALYSIS REPORT

Area SIOUX CITY [SIOUX CITY] DB090102E Unit 02

Natural Gas Engine

PETRO CANADA DURON MONOGRADE HD 40W (250 GAL)

Sample Rating Trend **FUEL**

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

Light fuel dilution occurring.

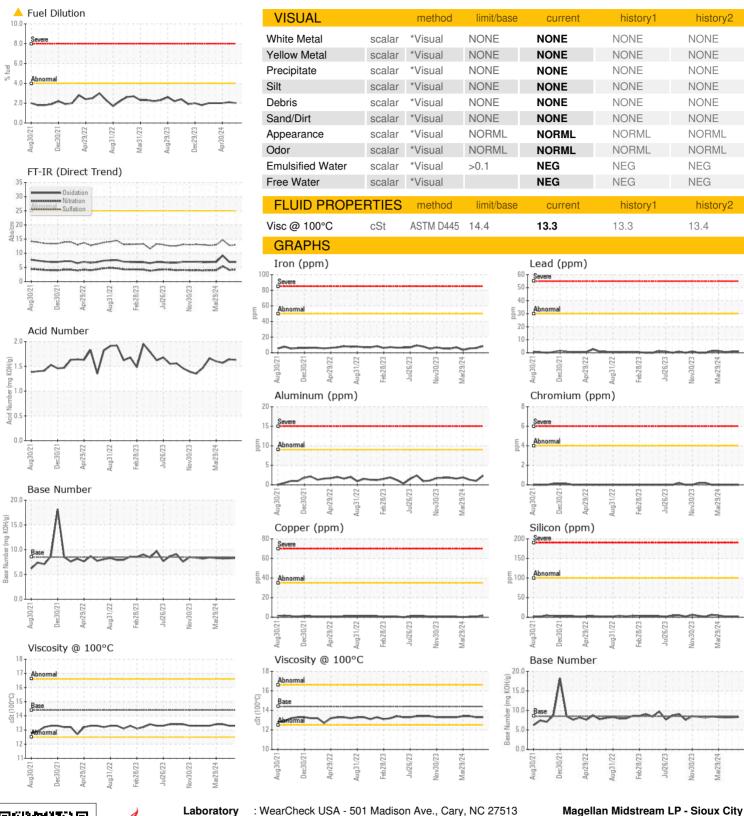
Fluid Condition

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		PCA0096542	PCA0096541	PCA0096540
Sample Date		Client Info		27 Jun 2024	31 May 2024	30 Apr 2024
Machine Age	hrs	Client Info		108368	108276	108181
Oil Age	hrs	Client Info		9511	9419	9324
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	MARGINAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water	IOIV	WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
	_					
Iron	ppm	ASTM D5185m	>50	8	6	6
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	1
Lead	ppm	ASTM D5185m	>30	1	1	<1
Copper	ppm	ASTM D5185m	>35	2	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	2
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		912	877	960
Calcium	ppm	ASTM D5185m		1101	1026	1104
Phosphorus	ppm	ASTM D5185m		1204	1094	1185
Zinc	ppm	ASTM D5185m		1410	1242	1339
Sulfur	ppm	ASTM D5185m		3788	3346	3723
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	2	2	2
Sodium		ASTM D5185m		2	2	1
Potassium	ppm	ASTM D5185m	>20	2	0	0
Fuel	%	ASTM D3524	>4.0	<u>^</u> 2.0	△ 2.1	▲ 2.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	4.2	4.1	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	12.9	12.8	14.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.9	6.9	9.2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.63	1.64	1.57
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.31	8.24	8.21
(214)						



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: PCA0096542 : 06229272 Unique Number : 11112765

Received : 05 Jul 2024 **Tested**

: 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Sean Felton

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

Contact: Scott Guthmiller scott.guthmiller@magellanlp.com T: (721)251-8554

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)

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