

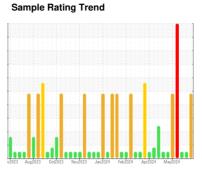
OIL ANALYSIS REPORT



Machine Id **BRCM03BE (S/N 6ZJ00395)**

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (150 GAL)





DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

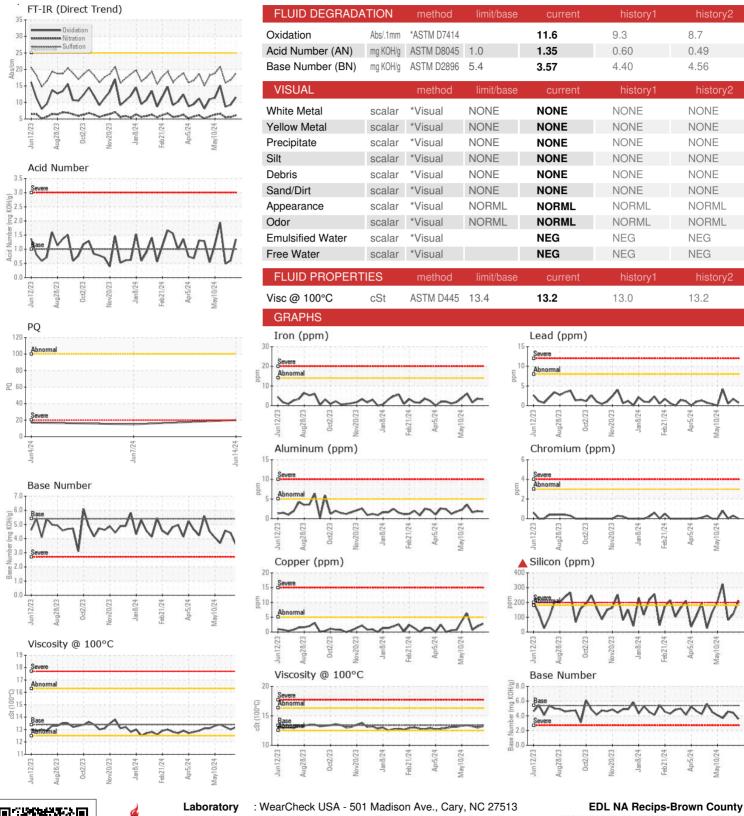
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0938379	WC0938384	WC0760841
Sample Date		Client Info		14 Jun 2024	07 Jun 2024	04 Jun 2024
Machine Age	hrs	Client Info		94008	93854	93786
Oil Age	hrs	Client Info		328	174	106
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		20	15	17
Iron	ppm	ASTM D5185m	>14	3	4	2
Chromium	ppm	ASTM D5185m	>3	0	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	2
Lead	ppm	ASTM D5185m	>8	<1	2	<1
Copper	ppm	ASTM D5185m	>5	3	2	<1
Tin	ppm	ASTM D5185m	>3	2	3	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	10	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		11	11	11
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		15	11	15
Calcium	ppm	ASTM D5185m		1843	1783	1753
Phosphorus	ppm	ASTM D5185m		265	265	272
Zinc	ppm	ASTM D5185m		326	320	331
Sulfur	ppm	ASTM D5185m		2338	2357	2210
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	1 212	122	81
Sodium	ppm	ASTM D5185m	>20	7	6	4
Potassium	ppm	ASTM D5185m	>20	4	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624		6.1	5.6	5.5
Sulfation	Abs/.1mm	*ASTM D7415		18.8	16.8	15.9



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number

: WC0938379 : 06214921 Unique Number : 11087785

Test Package : MOB 2 (Additional Tests: PQ)

Received : 19 Jun 2024 **Tested** Diagnosed

: 20 Jun 2024 : 21 Jun 2024 - Sean Felton

BROWN COUNTY POWER STATION, 9427 BEYERS RD GEORGETOWN, OH US 45121

> Contact: MITCHELL BUTLER Mitchell.Butler@edlenergy.com T:

 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)

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

Report Id: ENEGEO [WUSCAR] 06214921 (Generated: 06/21/2024 17:06:56) Rev: 1

Submitted By: BRETT PONTIUS

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