

# **OIL ANALYSIS REPORT**



Sample Rating Trend







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

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (150 GAL)

## 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 acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0938384	WC0760841	WC0760836
Sample Date		Client Info		07 Jun 2024	04 Jun 2024	17 May 2024
Machine Age	hrs	Client Info		93854	93786	93505
Oil Age	hrs	Client Info		174	106	510
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINATION	V	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		15		
Iron	ppm	ASTM D5185m	>14	4	2	6
Chromium	ppm	ASTM D5185m	>3	<1	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>5	2	2	4
Lead	ppm	ASTM D5185m	>8	2	<1	4
Copper	ppm	ASTM D5185m	>5	2	<1	<u>^</u> 6
Tin	ppm	ASTM D5185m	>3	3	1	<b>6</b>
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	8	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		11	11	8
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		11	15	26
Calcium	ppm	ASTM D5185m		1783	1753	1862
Phosphorus	ppm	ASTM D5185m		265	272	304
Zinc	ppm	ASTM D5185m		320	331	385
Sulfur	ppm	ASTM D5185m		2357	2210	2725
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	122	81	▲ 324
Sodium	ppm	ASTM D5185m	>20	6	4	0
Potassium	ppm	ASTM D5185m	>20	4	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624		5.6	5.5	6.6
Sulfation	Abs/.1mm	*ASTM D7415		16.8	15.9	20.9



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number

: WC0938384 : 06204878 Unique Number : 11072339 Test Package : MOB 2 ( Additional Tests: pq )

Received **Tested** Diagnosed

: 10 Jun 2024 : 12 Jun 2024 : 12 Jun 2024 - Don Baldridge

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

Contact: MITCHELL BUTLER Mitchell.Butler@edlenergy.com

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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