

# **OIL ANALYSIS REPORT**



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 suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0760841	WC0760836	WC0760842
Sample Date		Client Info		04 Jun 2024	17 May 2024	10 May 2024
Machine Age	hrs	Client Info		93786	93505	93334
Oil Age	hrs	Client Info		106	510	339
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	SEVERE
CONTAMINATION	J	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		17		
Iron	ppm	ASTM D5185m	>14	2	6	4
Chromium	ppm	ASTM D5185m	>3	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>5	2	4	2
Lead	ppm	ASTM D5185m	>8	<1	4	0
Copper	ppm	ASTM D5185m	>5	<1	<u>^</u> 6	4
Tin	ppm	ASTM D5185m	>3	1	<b>6</b>	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	8	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		11	8	6
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		15	26	23
Calcium	ppm	ASTM D5185m		1753	1862	1937
Phosphorus	ppm	ASTM D5185m		272	304	300
Zinc	ppm	ASTM D5185m		331	385	362
Sulfur	ppm	ASTM D5185m		2210	2725	2435
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	81	▲ 324	▲ 208
Sodium	ppm	ASTM D5185m	>20	4	0	2
Potassium	ppm	ASTM D5185m	>20	3	4	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624		5.5	6.6	6.3
Sulfation	Abs/.1mm	*ASTM D7415		15.9	20.9	18.8



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Certificate 12367

Laboratory Sample No.

: WC0760841 Lab Number : 06202124 Unique Number : 11069585

Received **Tested** Diagnosed

: 06 Jun 2024 : 18 Jun 2024 : 18 Jun 2024 - Jonathan Hester

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

Test Package : MOB 2 ( Additional Tests: PQ ) 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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