

# **OIL ANALYSIS REPORT**

## Sample Rating Trend









Machine Id

SJNM03BE
Component
Biogas Engine
Fluid
CHEVRON HDAY 0500

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (--- GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

## **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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865736	WC0865717	WC0865734
Sample Date		Client Info		13 Jun 2024	07 Jun 2024	30 May 2024
Machine Age	hrs	Client Info		117375	117236	117116
Oil Age	hrs	Client Info		259	120	1007
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINATION		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	<1	1	0
Chromium	ppm	ASTM D5185m	>3	0	<1	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	2
Lead	ppm	ASTM D5185m	>8	1	1	<u> </u>
Copper	ppm	ASTM D5185m	>5	2	1	3
Tin	ppm	ASTM D5185m	>3	2	2	<u> 5</u>
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	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	2	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		12	11	21
Calcium	ppm	ASTM D5185m		1826	1778	1965
Phosphorus	ppm	ASTM D5185m		281	268	286
Zinc	ppm	ASTM D5185m		336	337	367
Sulfur	ppm	ASTM D5185m		2251	1931	2337
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	88	55	▲ 238
Sodium	ppm	ASTM D5185m	>20	2	0	<1
Potassium	ppm	ASTM D5185m	>20	3	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624		5.6	5.3	6.7
Sulfation	Abs/.1mm	*ASTM D7415		15.9	15.2	19.9



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number

: WC0865736 : 06211929 Unique Number : 11084793

Test Package : MOB 2 ( Additional Tests: PQ )

Received **Tested** Diagnosed

: 17 Jun 2024 : 21 Jun 2024 : 21 Jun 2024 - Jonathan Hester

South Jordan Powerstation, 10473 S. Bacchus Hwy. South Jordan, UT US 84095

Contact: Aaron Klein aaron.klein@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)

T:

F: