

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

## **DEGRADATION**



# **EDLTAY TAYM07BE (S/N 1256580)**

**Biogas Engine** 

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (200 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

There is no indication of any contamination in the

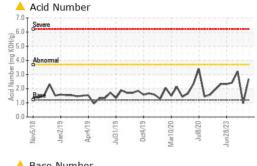
## Fluid Condition

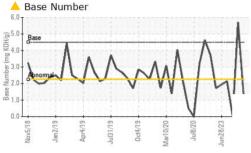
The BN level is low. The AN level is at the top-end of the recommended limit.

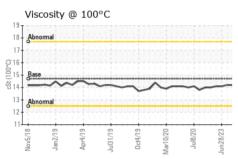
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0788208	WC0788235	WC0788250
Sample Date		Client Info		26 Sep 2023	09 Aug 2023	01 Aug 2023
Machine Age	hrs	Client Info		4239	112819	112819
Oil Age	hrs	Client Info		54824	54824	57995
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	3	1	5
Chromium	ppm	ASTM D5185m	>4	<1	0	1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	<1	2	3
Lead	ppm	ASTM D5185m	>20	<1	<1	<1
Copper	ppm	ASTM D5185m	>6	<1	0	1
Tin	ppm	ASTM D5185m	>4	5	1	5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES						
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2 <1
	ppm ppm		limit/base		0	<1
Boron		ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1	0 0 <1	<1
Boron Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 <1	0 0 <1 <1	<1 0 2 <1
Boron Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 <1 5	0 0 <1 <1 7	<1 0 2 <1 17
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 <1 5 1953	0 0 <1 <1 7 1756	<1 0 2 <1 17
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 <1 5 1953 294	0 0 <1 <1 7 1756 277	<1 0 2 <1 17 1784 277
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 <1 5 1953 294 373	0 0 <1 <1 7 1756 277 326	<1 0 2 <1 17 1784 277 383
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 <1 5 1953 294	0 0 <1 <1 7 1756 277	<1 0 2 <1 17 1784 277
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	0 0 <1 <1 5 1953 294 373 4340 current	0 0 <1 <1 7 1756 277 326 2720 history1	<1 0 2 <1 17 1784 277 383 5077 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >181	0 0 <1 <1 5 1953 294 373 4340 current	0 0 <1 <1 7 1756 277 326 2720	<1 0 2 <1 17 1784 277 383 5077 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >181 >20	0 0 <1 <1 5 1953 294 373 4340 current 32 <1	0 0 <1 <1 7 1756 277 326 2720 history1 5	<1 0 2 <1 17 1784 277 383 5077 history2 16 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >181	0 0 <1 <1 5 1953 294 373 4340 current	0 0 <1 <1 7 1756 277 326 2720 history1 5 1	<1 0 2 <1 17 1784 277 383 5077 history2 16 0 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >181 >20	0 0 <1 <1 5 1953 294 373 4340 current 32 <1	0 0 <1 <1 7 1756 277 326 2720 history1 5	<1 0 2 <1 17 1784 277 383 5077 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >181 >20 >20	0 0 <1 <1 <1 5 1953 294 373 4340  current 32 <1 <1 current 0	0 0 <1 <1 7 1756 277 326 2720 history1 5 1 1 history1 0	<1 0 2 <1 17 1784 277 383 5077 history2 16 0 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >181 >20 >20 limit/base >2	0 0 <1 <1 5 1953 294 373 4340  current 32 <1 <1 current	0 0 <1 <1 7 1756 277 326 2720 history1 5 1 history1 0 4.8	<1 0 2 <1 17 1784 277 383 5077 history2 16 0 2 history2 0 3.9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >181 >20 >20 limit/base >2	0 0 <1 <1 <1 5 1953 294 373 4340  current 32 <1 <1 current 0	0 0 <1 <1 7 1756 277 326 2720 history1 5 1 1 history1 0	<1 0 2 <1 17 1784 277 383 5077 history2 16 0 2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >181 >20 >20 limit/base >2 >20	0 0 <1 <1 <1 5 1953 294 373 4340  current 32 <1 <1 current 0 5.2	0 0 <1 <1 7 1756 277 326 2720 history1 5 1 history1 0 4.8	<1 0 2 <1 17 1784 277 383 5077 history2 16 0 2 history2 0 3.9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	limit/base >181 >20 >20   limit/base >2 >2 >20 >30	0 0 <1 <1 <1 5 1953 294 373 4340	0 0 <1 <1 7 1756 277 326 2720 history1 5 1 1 history1 0 4.8 16.5	<1 0 2 <1 17 1784 277 383 5077 history2 16 0 2 history2 0 3.9 30.6
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method  *ASTM D7844 *ASTM D7624 *ASTM D7415  Method	limit/base >181 >20 >20 limit/base >2 >20   s30   limit/base	0 0 <1 <1 <1 5 1953 294 373 4340	0 0 <1 <1 7 1756 277 326 2720 history1 5 1 1 history1 0 4.8 16.5 history1	<1 0 2 <1 17 1784 277 383 5077 history2 16 0 2 history2 0 3.9 30.6 history2



## **OIL ANALYSIS REPORT**





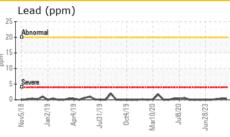


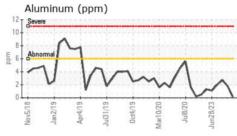
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

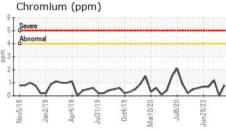
I LOID I NOI LI	TILO	memou	IIIIII/Dase	Current	HISTOLAL	TIISTOI YZ
Visc @ 100°C	cSt	ASTM D445	14.7	13.4	13.0	14.2

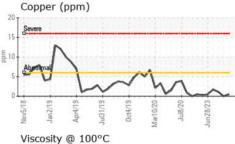
Iro	n (ppi	m)						
25 - Seve	re F	4						-
10-	V	1	1	1	N	Λ		-
0 - 8	- 61	- V	- V	- 61	N	/\		V
Nov5/18	Jan2/19	Apr4/19	Jul31/	Oct4/19	Mar10/2	Jul8/20	Jun28/2:	

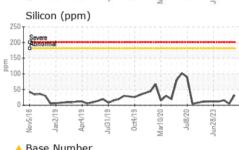
**GRAPHS** 

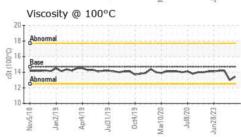


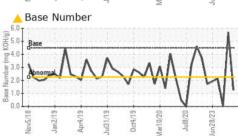














Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0788208 : 05966502

: 10673053 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Oct 2023 Diagnosed : 04 Oct 2023 : Don Baldridge Diagnostician

**EDL NA Recips-Taylor County** 

TAYLOR COUNTY POWER STATION, COUNTY ROAD 33 & STEWART ROAD MAUK, GA

US 31058 Contact: STEVEN BABB steven.babb@edlenergy.com

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

\* - 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)

Report Id: ENEMAU [WUSCAR] 05966502 (Generated: 10/04/2023 13:01:03) Rev: 1

Submitted By: Daniel Dauzat

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