

OIL ANALYSIS REPORT

Sample Rating Trend





EDLTAY TAYM03BE (S/N 1256582)

Biogas Engine

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (180 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

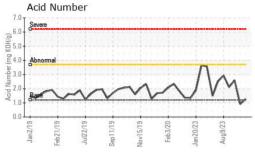
Fluid Condition

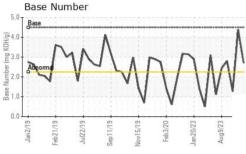
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

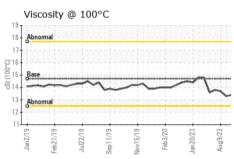
`		12019 Feb201	10 002010 002010	Nov2019 Feb2020 Jan2023 A		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0788230	WC0788225	WC0788213
Sample Date		Client Info		16 Nov 2023	03 Nov 2023	18 Oct 2023
Machine Age	hrs	Client Info		55664	5989	55664
Oil Age	hrs	Client Info		43977	5989	43977
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water			>.2	NEG	NEG	NEG
Glycol		WC Method	· .=	NEG	NEG	NEG
			limit/bass			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	0	0	2
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	1	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>6	0	0	0
Tin	ppm	ASTM D5185m	>4	2	<1	4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2
	ppm		limit/base			
Boron		ASTM D5185m	limit/base	0	0	0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 0	0 2	0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	0 2 0	0 0 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1	0 2 0 <1	0 0 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 6	0 2 0 <1 8	0 0 0 <1 2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 6 1856	0 2 0 <1 8 1525	0 0 0 <1 2 1744
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 6 1856 277	0 2 0 <1 8 1525 245	0 0 0 <1 2 1744 257
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm 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 0 <1 6 1856 277	0 2 0 <1 8 1525 245 320	0 0 0 <1 2 1744 257 330
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 0 <1 6 1856 277 344 3182	0 2 0 <1 8 1525 245 320 1791	0 0 0 <1 2 1744 257 330 3632
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >181	0 0 0 <1 6 1856 277 344 3182 current	0 2 0 <1 8 1525 245 320 1791 history1	0 0 0 <1 2 1744 257 330 3632 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >181 >20	0 0 0 <1 6 1856 277 344 3182 current	0 2 0 <1 8 1525 245 320 1791 history1	0 0 0 <1 2 1744 257 330 3632 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 0 <1 6 1856 277 344 3182 current 29	0 2 0 <1 8 1525 245 320 1791 history1 5	0 0 0 <1 2 1744 257 330 3632 history2 9
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 0 <1 6 1856 277 344 3182 current 29 2 4	0 2 0 <1 8 1525 245 320 1791 history1 5 1	0 0 0 <1 2 1744 257 330 3632 history2 9 <1
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 ASTM D5185m	limit/base >181 >20 >20 limit/base >2	0 0 0 -<1 6 1856 277 344 3182 current 29 2 4	0 2 0 <1 8 1525 245 320 1791 history1 5 1 3 history1 0	0 0 0 <1 2 1744 257 330 3632 history2 9 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	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 0 -<1 6 1856 277 344 3182 current 29 2 4 current 0 5.0	0 2 0 <1 8 1525 245 320 1791 history1 5 1 3 history1 0 4.9	0 0 0 <1 2 1744 257 330 3632 history2 9 <1 0 history2
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 D7415	limit/base >181 >20 >20 limit/base >2 >2 >20 >30	0 0 0 -<1 6 1856 277 344 3182 current 29 2 4 current 0 5.0 21.3	0 2 0 <1 8 1525 245 320 1791 history1 5 1 3 history1 0 4.9 16.7	0 0 0 <1 2 1744 257 330 3632 history2 9 <1 0 history2
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 >30 limit/base	0 0 0 -<1 6 1856 277 344 3182 current 29 2 4 current 0 5.0 21.3	0 2 0 <1 8 1525 245 320 1791 history1 5 1 3 history1 0 4.9 16.7 history1	0 0 0 1 2 1744 257 330 3632 history2 9 <1 0 history2 0 5.0 27.0 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation	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 D7624 *ASTM D7415 Method *ASTM D7414	limit/base >181 >20 >20 limit/base >2 >20 limit/base >2 >20 >30 limit/base	0 0 0 1 1856 277 344 3182 current 29 2 4 current 0 5.0 21.3 current	0 2 0 <1 8 1525 245 320 1791 history1 5 1 3 history1 0 4.9 16.7 history1 8.1	0 0 0 1 1744 257 330 3632 history2 9 <1 0 history2 0 5.0 27.0 history2 12.4
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 D7624 *ASTM D7415 Method *ASTM D7414	limit/base >181 >20 >20 limit/base >2 >20 >30 limit/base	0 0 0 -<1 6 1856 277 344 3182 current 29 2 4 current 0 5.0 21.3	0 2 0 <1 8 1525 245 320 1791 history1 5 1 3 history1 0 4.9 16.7 history1	0 0 0 1 1744 257 330 3632 history2 9 <1 0 history2 0 5.0 27.0 history2



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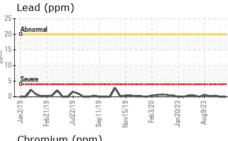


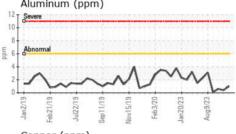


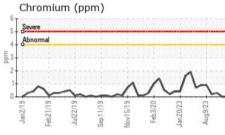
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

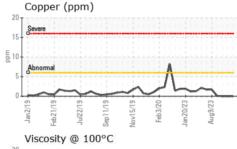
FLUID PROPER	THES	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.7	13.3	13.0	13.4

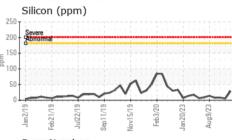
Iroi 25 T	n (ppi	m)						
Seve	re							
	ormal	-						11
E 10							0	
5-	V	7	~	$\sqrt{}$	/ `		_/	
Jan2/19	1/19	Jul22/19	1/19	61/9	Feb3/20	0/23	Aug9/23	_
Jan	Feb21/19	Jul	Sep1	Nov15/19	귤	Jan20/23	Aug	
Alu	minu	m (pr	m)					

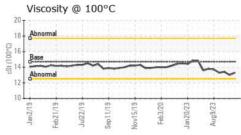


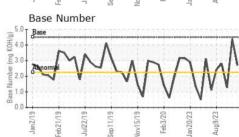
















Certificate L2367

Report Id: ENEMAU [WUSCAR] 06012625 (Generated: 11/22/2023 13:22:18) Rev: 1

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0788230 : 06012625

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

: 10751769

Received : 20 Nov 2023 Diagnosed : 22 Nov 2023 : Jonathan Hester 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 T:

* - 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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