

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 from the component if this has not already been 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

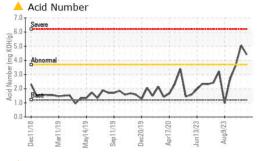
▲ Fluid Condition

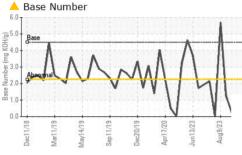
The AN level is above the recommended limit. The BN level is low.

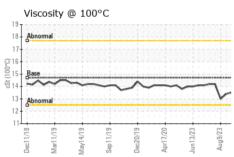
		c2018 Mar20	19 May2019 Sep2019	Dec2019 Apr2020 Jun2023 A	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0788154	WC0788228	WC0788222
Sample Date		Client Info		16 Nov 2023	03 Nov 2023	18 Oct 2023
Machine Age	hrs	Client Info		112819	4634	112819
Oil Age	hrs	Client Info		54824	1000	54824
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	6	4	5
Chromium	ppm	ASTM D5185m	>4	2	1	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	3	2	1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>6	1	1	<1
Tin	ppm	ASTM D5185m	>4	8	6	5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	0
	ppm ppm	ASTM D5185m ASTM D5185m		0	0	0
Barium Molybdenum Manganese				-		
Molybdenum	ppm	ASTM D5185m		0	0	0
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		0 <1	0 <1	0 <1
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 8	0 <1 9	0 <1 2
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 8 2069	0 <1 9 1737	0 <1 2 1824
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 8 2069 298	0 <1 9 1737 262	0 <1 2 1824 264
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 8 2069 298 403	0 <1 9 1737 262 379	0 <1 2 1824 264 356
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >181	0 <1 8 2069 298 403 5138	0 <1 9 1737 262 379 4028	0 <1 2 1824 264 356 3972
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 8 2069 298 403 5138 current	0 <1 9 1737 262 379 4028 history1	0 <1 2 1824 264 356 3972 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	>181	0 <1 8 2069 298 403 5138 current 66	0 <1 9 1737 262 379 4028 history1 35	0 <1 2 1824 264 356 3972 history2 31
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>181 >20	0 <1 8 2069 298 403 5138 current 66 <1	0 <1 9 1737 262 379 4028 history1 35 <1	0 <1 2 1824 264 356 3972 history2 31
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>181 >20 >20	0 <1 8 2069 298 403 5138 current 66 <1 2	0 <1 9 1737 262 379 4028 history1 35 <1 <1	0 <1 2 1824 264 356 3972 history2 31 1 <1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>181 >20 >20 >20 limit/base	0 <1 8 2069 298 403 5138 current 66 <1 2 current 0.1	0 <1 9 1737 262 379 4028 history1 35 <1 <1 history1	0 <1 2 1824 264 356 3972 history2 31 1 <1 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m method *ASTM D7844	>181 >20 >20 >20 limit/base >2	0 <1 8 2069 298 403 5138 current 66 <1 2 current	0 <1 9 1737 262 379 4028 history1 35 <1 <1 history1 0.1	0 <1 2 1824 264 356 3972 history2 31 1 <1 history2 0
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 Method ASTM D5185m	>181 >20 >20 limit/base >2 >20	0 <1 8 2069 298 403 5138 current 66 <1 2 current 0.1 5.4	0 <1 9 1737 262 379 4028 history1 35 <1 <1 history1 0.1 5.2	0
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	>181 >20 >20 imit/base >2 >20 imit/base	0 <1 8 2069 298 403 5138 current 66 <1 2 current 5.4 34.8 current	0 <1 9 1737 262 379 4028 history1 35 <1 <1 history1 0.1 5.2 33.3 history1	0 <1 2 1824 264 356 3972 history2 31 1 <1 history2 0 5.2 32.1 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7615 Method *ASTM D7415 Method *ASTM D7414	>181 >20 >20 imit/base >2 >20 limit/base >2 >30 limit/base >25	0 <1 8 2069 298 403 5138 current 66 <1 2 current 9.4 34.8 current 15.1	0	0
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	>181 >20 >20 imit/base >2 >20 imit/base	0 <1 8 2069 298 403 5138 current 66 <1 2 current 5.4 34.8 current	0 <1 9 1737 262 379 4028 history1 35 <1 <1 history1 0.1 5.2 33.3 history1	0 <1 2 1824 264 356 3972 history2 31 1 <1 history2 0 5.2 32.1 history2



OIL ANALYSIS REPORT





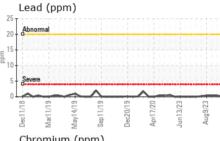


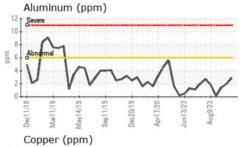
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

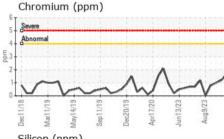
FLUID FROFEI	11123	memod	IIIIII/Dase	Current	HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.7	13.7	13.6	13.5

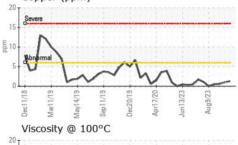
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Abnormal	1					
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			1151		1000000	

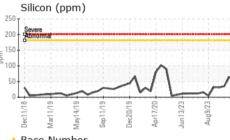
GRAPHS

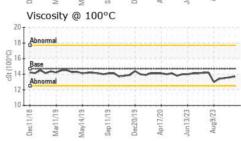


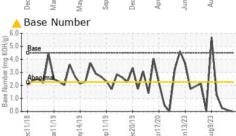
















Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: WC0788154

: 06012626 : 10751770 Test Package : MOB 2

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Nov 2023 : 22 Nov 2023 Diagnosed

: 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: F:

* - 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] 06012626 (Generated: 11/22/2023 13:23:16) Rev: 1

Submitted By: Daniel Dauzat