

OIL ANALYSIS REPORT



Sample Rating Trend

SAMPLE INFORMATION method limit/base current



NORMAL

TAYM05BE (S/N 1207239) Biogas Engine CHEVRON HDAX 9500 GAS ENGINE OIL 40 (180 GAL)

Recommendation

Resample at the next service interval to monitor.

Area EDLTAY

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

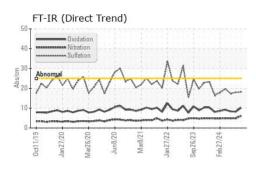
Fluid Condition

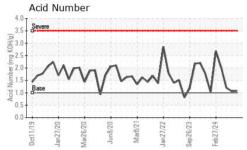
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

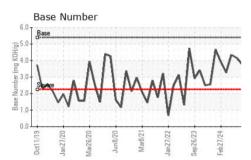
Oli Changed Sample Status Client Info Not Changd NORMAL Not Changd NORMAL Not Changed NORMAL Changed NORMAL CONTAMINATION method imit/base current History1 History2 Fuel WC Method >4.0 <1.0	SAMPLE INFORM	ATION	methoa	iimit/base	current	nistory i	nistory2	
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Oil Age hrs Client Info 454 286 142 Oil Changed Client Info Not Changd Not Changd NoRMAL NoRMAL Sample Status Imathod Imitalization Not Changd NoRMAL NoRMAL CONTAMINATION method Imitalization NoRMAL NoRMAL NoRMAL Guy Contamination WC Method >4.0 <1.0 <1.0 <1.0 Water WC Method >4.0 <1.0 <1.0 NEG NEG Water WC Method NEG NEG NEG NEG NEG WEAR METALS method Imitbase current history1 history2 Iron ppm ASTM 05165 >3 0 <1 0 Nickel ppm ASTM 05165 >5 <1 3 <1 Lead ppm ASTM 05165 >6 1 3 1 Vandium ppm ASTM 05165 0 <1 0 <	Sample Date		Client Info		03 Apr 2024	27 Mar 2024	21 Mar 2024	
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Fuel WC Method >4.0 <1.0	Sample Status				NORMAL	NORMAL	NORMAL	
Water WC Method NEG NEG NEG NEG NEG Glycol WC Method Imil/base current history1 history2 Iron ppm ASTM D5185m >14 <1 7 2 Chromium ppm ASTM D5185m 0 <1 0 Nickel ppm ASTM D5185m 0 <1 0 Silver ppm ASTM D5185m 0 <1 0 Aluminum ppm ASTM D5185m 55 <1 3 <1 Lead ppm ASTM D5185m >5 <1 3 1 Vanadium ppm ASTM D5185m >5 2 4 2 Tin ppm ASTM D5185m >6 1 3 1 Vanadium ppm ASTM D5185m 0 <1 0 ADDITIVES method Imit/base current history1 history2 Barium ppm	CONTAMINATION	٨	method	limit/base	current	history1	history2	
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Iron ppm ASTM D5185m >14 <1	Glycol		WC Method		NEG	NEG	NEG	
Chromium ppm ASTM D5185m >3 0 <1	WEAR METALS		method	limit/base	current	history1	history2	
Nickel ppm ASTM D5185m 0 <1	Iron	ppm	ASTM D5185m	>14	<1	7	2	
Titanium ppm ASTM D5185m 0 <1	Chromium	ppm	ASTM D5185m	>3	0	<1	0	
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >5 <1 3 <1 Lead ppm ASTM D5185m >5 2 4 2 Copper ppm ASTM D5185m >5 2 4 2 Tin ppm ASTM D5185m >6 1 3 1 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Maganese ppm ASTM D5185m 23 44 2 1 448 2 Maganesium ppm ASTM D5185m 236 382 250 312 312 <th>Nickel</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th><1</th> <th>0</th>	Nickel	ppm	ASTM D5185m		0	<1	0	
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Lead ppm ASTM D5185m >6 0 <1	Silver	ppm	ASTM D5185m		0	0	0	
Copper ppm ASTM D5185m >5 2 4 2 Tin ppm ASTM D5185m >6 1 3 1 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 2 0 Barium ppm ASTM D5185m 0 0 0 Magnese ppm ASTM D5185m 2 4 2 Magnesium ppm ASTM D5185m 2 4 2 Magnesium ppm ASTM D5185m 6 10 6 Calcium ppm ASTM D5185m 236 382 259 Zinc ppm ASTM D5185m 2375 44443 2820 CONTAMINANTS method limit/base current history1 h	Aluminum	ppm	ASTM D5185m	>5	<1	3	<1	
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Nitration Abs/cm *ASTM D7624 >20 6.1 4.9 4.9 Sulfation Abs/.1mm *ASTM D7615 >30 18.1 18.0 17.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >15 10.2 8.2 8.4 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.07 1.06 1.20 Base Number (BN) mg KOH/g ASTM D2896 5.4 3.79 4.16 4.34			method	limit/base				
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FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >15 10.2 8.2 8.4 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.07 1.06 1.20 Base Number (BN) mg KOH/g ASTM D2896 5.4 3.79 4.16 4.34								
Oxidation Abs/.1mm *ASTM D7414 >15 10.2 8.2 8.4 Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.07 1.06 1.20 Base Number (BN) mg KOH/g ASTM D2896 5.4 3.79 4.16 4.34	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.0	17.4	
Acid Number (AN) mg KOH/g ASTM D8045 1.0 1.07 1.06 1.20 Base Number (BN) mg KOH/g ASTM D2896 5.4 3.79 4.16 4.34	FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Base Number (BN) mg KOH/g ASTM D2896 5.4 3.79 4.16 4.34	Oxidation	Abs/.1mm	*ASTM D7414	>15	10.2	8.2	8.4	
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.07	1.06	1.20	
:33:26) Rev: 1 Submitted By: Steven Sedle	Base Number (BN)	mg KOH/g	ASTM D2896	5.4	3.79	4.16	4.34	
	:33:26) Rev: 1					Submitted By: Steven Sedler		

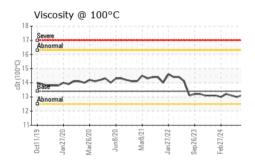


OIL ANALYSIS REPORT

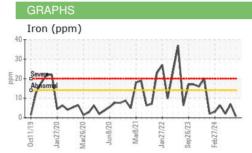


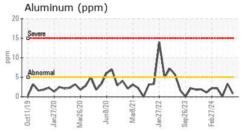


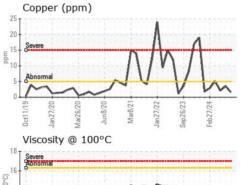


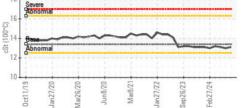


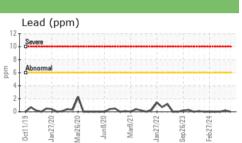
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.4	13.1	13.0	13.1



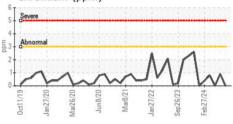


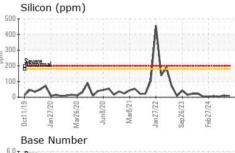


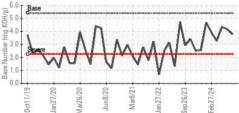




Chromium (ppm)







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **EDL NA Recips-Taylor County** Sample No. : WC0901603 TAYLOR COUNTY POWER STATION, COUNTY ROAD 33 & STEWART ROAD Received : 09 Apr 2024 Lab Number : 06143239 Tested : 10 Apr 2024 MAUK, GA Unique Number : 10968047 Diagnosed : 10 Apr 2024 - Jonathan Hester US 31058 Test Package : MOB 2 Contact: STEVEN BABB Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. steven.babb@edlenergy.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: ENEMAU [WUSCAR] 06143239 (Generated: 04/10/2024 14:33:26) Rev: 1

Submitted By: Steven Sedler

Page 2 of 2

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