

OIL ANALYSIS REPORT



Area EDLTAY Machine Id TAYM05BE (S/N 1207239) Component Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (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

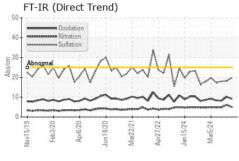
Fluid Condition

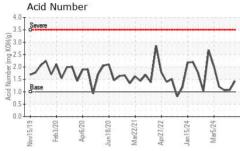
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

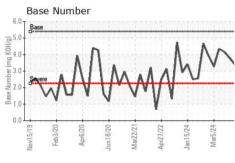
Sample Date	istory2	histo	history1	current	limit/base	method	IATION	SAMPLE INFORM
Machine Age hrs Client Info 723537	01596	WC0901	WC0901603	WC0901636		Client Info		Sample Number
Oil Age hrs Client Info 622 454 286 Oil Changed Client Info Not Changd	r 2024	27 Mar 2	03 Apr 2024	10 Apr 2024		Client Info		Sample Date
Oil Changed Sample Status Client Info Sample Status Not Changd NORMAL NORMAL NORMAL Not Changd NORMAL NORMAL NORMAL Not Changd NORMAL NORMAL NORMAL Not Changd NORMAL NORMAL NORMAL NORMAL Not Changd NORMAL NORMAL NORMAL NORMAL NORMAL COMMAN NORMAL NORMA	37	723537	723537	723537		Client Info	hrs	Machine Age
Sample Status		286	454	622		Client Info	hrs	-
CONTAMINATION method limit/base current history1 his Fuel WC Method >4.0 <1.0	hangd	Not Char	Not Changd	Not Changd		Client Info		Oil Changed
Fuel	ЛАL	NORMAL	NORMAL	NORMAL				-
Water WC Method NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >14 3 <1 7 Chromium ppm ASTM D5185m >3 <1 0 <1 Nickel ppm ASTM D5185m <1 0 <1 1 Titanium ppm ASTM D5185m <1 0 <1 1 Silver ppm ASTM D5185m >5 2 <1 3 <1 0 <1 <1 0 <1 3 <1 3 <1 3 <1 3 <1 3 <1 3 <1 3 <1 3 <1 3 <1 3 <1 3 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	istory2	histo	history1	current	limit/base	method	J	CONTAMINATION
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Iron					limit/bass			
Chromium ppm ASTM D5185m >3 <1 0 <1 Nickel ppm ASTM D5185m <1	istory2							
Nickel								-
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Molybdenum ppm ASTM D5185m 3 2 4 Manganese ppm ASTM D5185m <1							ppm	Boron
Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 5 6 10 Calcium ppm ASTM D5185m 1916 1813 273 Phosphorus ppm ASTM D5185m 280 236 382 Zinc ppm ASTM D5185m 331 308 505 Sulfur ppm ASTM D5185m 3593 2375 4443 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >180 6 6 10 Sodium ppm ASTM D5185m 2 2 2 3 Potassium ppm ASTM D5185m >20 5 2 8 INFRA-RED method limit/base current history1 his Soot % % *ASTM D7624 >2 0 0 0 Nitration Abs/cm *A		0	0	0		ASTM D5185m	ppm	Barium
Magnesium ppm ASTM D5185m 5 6 10 Calcium ppm ASTM D5185m 1916 1813 273° Phosphorus ppm ASTM D5185m 280 236 382 Zinc ppm ASTM D5185m 331 308 505 Sulfur ppm ASTM D5185m 3593 2375 444° CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >180 6 6 10 Sodium ppm ASTM D5185m 2 2 2 3 Potassium ppm ASTM D5185m >20 5 2 8 INFRA-RED method limit/base current history1 his Soot % % *ASTM D7624 >2 0 0 0 Nitration Abs/cm *ASTM D7624 >20 5.0 6.1 4.9						ASTM D5185m	ppm	Molybdenum
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Sulfur ppm ASTM D5185m 3593 2375 4443 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >180 6 6 10 Sodium ppm ASTM D5185m 2 2 2 3 Potassium ppm ASTM D5185m >20 5 2 8 INFRA-RED method limit/base current history1 his Soot % % *ASTM D7844 >2 0 0 0 Nitration Abs/cm *ASTM D7624 >20 5.0 6.1 4.9				280			ppm	Phosphorus
CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >180 6 6 10 Sodium ppm ASTM D5185m 2 2 2 3 Potassium ppm ASTM D5185m >20 5 2 8 INFRA-RED method limit/base current history1 his Soot % % *ASTM D7844 >2 0 0 0 Nitration Abs/cm *ASTM D7624 >20 5.0 6.1 4.9	5	505	308	331		ASTM D5185m	ppm	Zinc
Silicon ppm ASTM D5185m >180 6 6 10 Sodium ppm ASTM D5185m 2 2 2 3 Potassium ppm ASTM D5185m >20 5 2 8 INFRA-RED method limit/base current history1 his Soot % % *ASTM D7844 >2 0 0 0 Nitration Abs/cm *ASTM D7624 >20 5.0 6.1 4.9	1 3	4443	2375	3593		ASTM D5185m	ppm	Sulfur
Sodium ppm ASTM D5185m 2 2 3 Potassium ppm ASTM D5185m >20 5 2 8 INFRA-RED method limit/base current history1 his Soot % % *ASTM D7844 >2 0 0 0 Nitration Abs/cm *ASTM D7624 >20 5.0 6.1 4.9	istory2	histo	history1	current	limit/base	method		CONTAMINANTS
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INFRA-RED method limit/base current history1 his Soot % % *ASTM D7844 >2 0 0 0 Nitration Abs/cm *ASTM D7624 >20 5.0 6.1 4.9		3	2	2		ASTM D5185m	ppm	Sodium
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Nitration Abs/cm *ASTM D7624 >20 5.0 6.1 4.9	istory2	histo	history1	current	limit/base	method		INFRA-RED
		0	0	0	>2	*ASTM D7844	%	Soot %
Sulfation Abs/.1mm *ASTM D7415 >30 19.8 18.1 18.0		4.9	6.1	5.0	>20	*ASTM D7624	Abs/cm	Nitration
		18.0			>30	*ASTM D7415	Abs/.1mm	Sulfation
FLUID DEGRADATION method limit/base current history1 his	istory2	histo	history1	current	limit/base	method	TION	FLUID DEGRADA
Oxidation		8.2	10.2	9.1	>15	*ASTM D7414	Abs/.1mm	Oxidation
		1.06						
		4.16						, ,

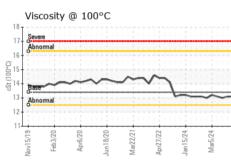


OIL ANALYSIS REPORT





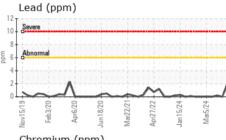


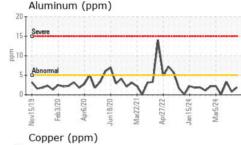


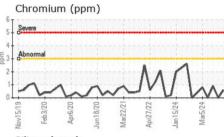
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance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

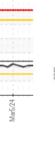
LLUID PHOPER	THES	memod			riistory i	History
Visc @ 100°C	cSt	ASTM D445	13.4	13.1	13.1	13.0

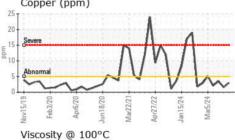
		11			. 1		
Severe					ΛI	1	
Abnor	mal			Λ	 V	1	-
	h	11	/	VU		1	W
Nov15/19	Feb3/20	-		-	Apr27/22	Jan 15/24	Mar5/24

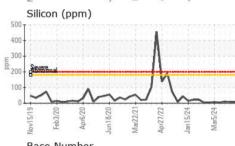


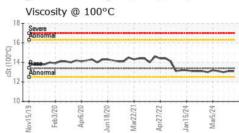


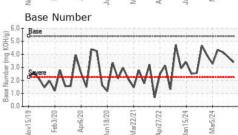
















Certificate 12367

Laboratory Sample No.

Test Package : MOB 2

: WC0901636 Lab Number : 06147541

Unique Number : 10977619

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Apr 2024 **Tested**

: 15 Apr 2024 : 16 Apr 2024 - Sean Felton **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)

Diagnosed

Report Id: ENEMAU [WUSCAR] 06147541 (Generated: 04/16/2024 13:06:49) Rev: 1

Submitted By: Steven Sedler

T:

F: