

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area EDLTAY Machine Id TAYM06BE (S/N 1256578) Component_

Biogas Engine

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (180 GAL)

SAMPLE INFORMATION method



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743	ы	NП		<u> </u>		
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Recommendation

Resample at the next service interval to monitor.

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.

Sample Number		Client Info		WC0788234	WC0788249	WC0788179
Sample Date		Client Info		09 Aug 2023	01 Aug 2023	28 Jun 2023
Machine Age	hrs	Client Info		65985	65985	65985
Oil Age	hrs	Client Info		55120	55120	55120
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	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	2	11
Chromium	ppm	ASTM D5185m	>4	<1	<1	3
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	2	3
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>6	<1	<1	2
Tin	ppm	ASTM D5185m	>4	2	2	6
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	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		7	6	21
Calcium	ppm	ASTM D5185m		1858	1878	2179
Phosphorus	ppm	ASTM D5185m		288	275	324
Zinc	ppm	ASTM D5185m		346	351	454
Sulfur	ppm	ASTM D5185m		3803	3307	6729
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	10	8	22
Sodium	ppm	ASTM D5185m	>20	1	0	1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>2	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.0	5.0	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.0	38.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.5	9.3	17.1
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	1.58	1.29	4 .14
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	4.10	2.97	▲ 0.67



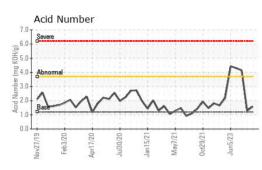
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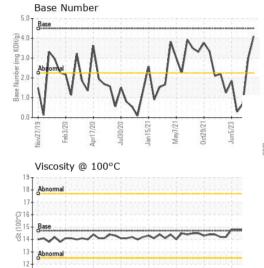
Nov27/19

Feb3/20

Apr17/20

OIL ANALYSIS REPORT





		VISUAL		method	limit/base			history2
122001 122000 120		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	N	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
~	11	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Ma	ML	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
/21-	121-	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jan 15/21 May7/21	0ct29/21 Jun5/23	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water		*Visual			NEG	NEG
			scalar		>.2	-		
		Free Water	scalar	*Visual		NEG	NEG	NEG
N	M /	FLUID PROPERT		method	limit/base	current	history1	history2
	41	Visc @ 100°C	cSt	ASTM D445	14.7	13.2	13.2	14.8
IV	N/	GRAPHS						
\vee	V	Iron (ppm)			20	Lead (ppm)		
<u> </u>		Severe			25	Abnormal		
Jan 15/21 May7/21	0ct29/21 Jun5/23	20 - Abnormal	0			Transformer		
sh N	0 7	Abnormal	/ _		¹⁵ 10			
			N	, AI				
		1 LW	1	NV	L 5	Severe		
		ov27/19	5/21+	May7/21 - 0ct29/21 -	0	9/79 3/20 3/20	5/21 5/21	9/21 5/23
		Nov27/19 Feb3/20 Apr17/20 Jul30/20	Jan 15/21	May7/21 0ct29/21		Nov27/19 Feb3/20 Apr17/20	Jul30/20 Jan15/21 May7/21	0ct29/21 Jun5/23
~~~~	~~~	Aluminum (ppm)			120.	Chromium (pp	m)	
		12 10			5	Severe		
		8	Λ		4	Abnormal	***************************************	
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Jan 15/21 May7/21	0ct29/21 Jun5/23	4-1 A	ha	M	2			
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		Nov27/19 Feb3/20 Apr17/20 Jul30/20	Jan 15/21	May7/21 0ct29/21		Nov27/19 - Feb3/20 - Apr17/20 -	Jul30/20 Jan15/21 May7/21	0ct29/21 Jun5/23
		Copper (ppm)				Silicon (ppm)		
		²⁰	000051333	120000000000000	250	Laboration and		
		15 - Severe			200	Severe Abnormat		
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		Viscosity @ 100°C	morținin			Base Number	190000000000000000000000000000000000000	
		18 - Abnormal			5.0 94.0 0 2.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94		· · · · · · · · · · · · · · · · · · ·	NA /
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		(2016 Base 314 Abnomal			2.0	- Automon		41
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				<u></u>	0.0	L++	N	
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			n15/2	ay, t29		rl rb	n] av	at25 in5
		Nov27/19 Feb3/20 Apr17/20 Ju(30/20	Jan 15/21	May7/21 0ct29/21		Nov27/19 Feb3/20 Apr17/20	Jul30/20 Jan15/21 May7/21	0ct29/21 Jun5/23
	Laboratory	Nov27/19 Feb3/20 Apr17/20 Jul30/20						
4	Laboratory Sample No.	EL/LZ700 UZ/LL/G : WearCheck USA - 5	501 Madis	son Ave., Ca	ry, NC 27513	E	DL NA Recips-	Taylor County
ANAB	Laboratory Sample No. Lab Number	6//22/08/m : WearCheck USA - 5 : WC0788234		son Ave., Ca 1 : 11 /		E		Taylor County
	Sample No.	EL/LZYNNN : WearCheck USA - 5 : WC0788234 : 05922386	501 Madis Received	son Ave., Ca d : 11 / ed : 14 /	ry, NC 27513 Aug 2023	E	DL NA Recips-	Taylor County ROAD 33 & STEWART ROA
TENNELADOWER	Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 5 : WC0788234 : 05922386 r : 10602333 e : MOB 2	501 Madis Received Diagnose Diagnose	son Ave., Ca d : 11 / ed : 14 / iician : Dor	ry, NC 27513 Aug 2023 Aug 2023 n Baldridge	E	DL NA Recips- Y POWER STATION, COUNTY Contact: S	Taylor County ROAD 33 & STEWART ROA MAUK, GA US 31058 STEVEN BABE
o discuss this	Sample No. Lab Number Unique Number Test Package sample report,	EV/22/00/07/2008/07/2008/07/2008/07/2008/07/2008/07/2008/234 : WC0788234 : 05922386 r : 10602333	501 Madia Received Diagnose Diagnose	son Ave., Ca d : 11 / ed : 14 / tician : Dor	ry, NC 27513 Aug 2023 Aug 2023 1 Baldridge 9.	E	DL NA Recips- Y POWER STATION, COUNTY	Taylor County ROAD 33 & STEWART ROA MAUK, GA US 31058 STEVEN BABE