

OIL ANALYSIS REPORT







Machine Id HANM02BE (S/N 3RC00182 Biogas Engine

Fluid

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (95 GA

5/N 3RC001 5 ENGINE OIL 40 (9	,	2023 Aug202	9 sep2023 0:ct2023	Dec2023 Jan2024 Feb.2024 N		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898166	WC0898113	WC0898110
Sample Date		Client Info		16 Apr 2024	10 Apr 2024	03 Apr 2024
Machine Age	hrs	Client Info		72816	72674	72504
Oil Age	hrs	Client Info		666	524	354
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2

Fluid Condition

Contamination

Recommendation

Wear

oil.

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.

There is no indication of any contamination in the

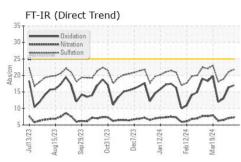
Resample at the next service interval to monitor.

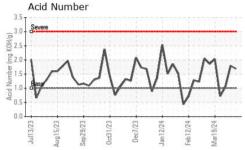
All component wear rates are normal.

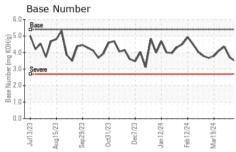
Sample Date		Client Into		16 Apr 2024	10 Apr 2024	03 Apr 2024
Machine Age	hrs	Client Info		72816	72674	72504
Oil Age	hrs	Client Info		666	524	354
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>.11	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	0	<1	1
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	2	2
Lead	ppm	ASTM D5185m	>9	1	3	0
Copper	ppm	ASTM D5185m	>6	<1	<1	1
Tin	ppm	ASTM D5185m	>4	4	6	3
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		12	14	14
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		4	5	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		25	21	18
Calcium	ppm	ASTM D5185m		2150	2103	1762
Phosphorus	ppm	ASTM D5185m		329	338	294
Zinc	ppm	ASTM D5185m		405	429	352
Sulfur	ppm	ASTM D5185m		3130	3030	2669
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	116	119	94
Sodium	ppm	ASTM D5185m	>21	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		7.3	7.1	6.5
Sulfation	Abs/.1mm	*ASTM D7415		21.8	21.1	18.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		17.0	16.4	13.0
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.69	1.79	1.05
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	3.49	3.71	4.36
:58:46) Rev: 1	5 0					By: TIM CUSICK
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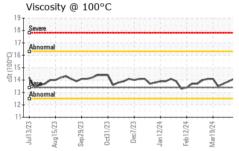


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				current	
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.11	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1
Visc @ 100°C	cSt	ASTM D445	13.4	14.1	13.9
GRAPHS					
Iron (ppm)			,	Lead (ppm)	
Severe				Severe	
				0 - Abnormal	
			L L L L L L L L L L L L L L L L L L L		
				5	
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Jul13/23 Aug15/23 Sep29/23 Oct31/23	Dec7/23	Jan 12/24 Feb 12/24 Mar19/24		Jul13/23 Aug15/23 Sep29/23	0ct31/23 Dec7/23 Jan12/24
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Aluminum (ppm)				Chromium (	ppm)
Aluminum (ppm)		12222222222		Chromium (	ppm)
Severe				5 Severe	ppm)
Severe			 11111	5 4 4 4 4 4	ppm)
Abnormal				5 4 4 4 4 4	ppm)
Abnormal	~	~~		6 5 4 3 4 Abnormal	ppm)
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Abnormal Abnormal EZEUSIN Copper (ppm)	Dec/23	Jani 224 - Z Feb 1224 - Z Mad 924 - S	<u>ل</u>	Severe Severe CZCSIDIN Silicon (ppm Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe	Dec1/23
Abnormal Abnormal EZE(107468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007468 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(1007488 EZE(10074888 EZE(10074888 EZE(10074888 EZE(10074888 EZE(100748888 EZE(10074888888 EZ	Dec/23	Jan1224 - Z Feb1224 - Z Mar1924 - Z	ع م 25 20 ق 10	Severe Severe CZCSIDIN Silicon (ppm Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe Severe	Dec1/23
Abnomal Copper (ppm) Severe Copper (ppm)		~~~~		6 6 6 6 6 6 6 6 6 6 6 6 6 6	Dec1/23
Abnomal Copper (ppm) Severe Copper (ppm)		~~~~		6 6 6 6 6 6 6 6 6 6 6 6 6 6	Dec1/23
Aproximal Approximal Serverse Approximal Copper (ppm) Severse Copper (ppm) Copper	Dec1/23	Jan12/24 Feb12/24 Mar19/24 Mar19/24 Mar19/24 Mar19/24		Severe Abnormal CZCEIInr Silicon (ppm Severe Severe Silicon (ppm Silicon (ppm Silicon (ppm) Silicon (ppm) Severe Severe Severe Silicon (ppm) Silicon (ppm) Severe Severe Severe Silicon (ppm) Silicon (ppm) Silicon (ppm) Silicon (ppm) Severe Severe Severe Silicon (ppm) Silicon (ppm)	0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd31224 0dd312224 0dd31224 0dd312224 0dd312224 0dd312224 0dd312224 0d
Abnormal EZ/EI/BP0 Copper (ppm) Severe EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 EZ/EI/BP0 E	Dec1/23	~~~~	25 20 <u>E</u> 10 5	6 6 6 6 6 6 6 6 6 6 6 6 6 6	0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd31224 0dd312224 0dd31224 0dd312224 0dd312224 0dd312224 0dd312224 0d
Abnormal EZIELIN Copper (ppm) Severe EZIELIN Copper (ppm) Severe EZIELIN Viscosity @ 100°C	Dec1/23	~~~~		Severe Anormal CEZ/EI/In Silicon (ppm Silicon (ppm CEZ/EI/In Base Numbe	0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd3123 0dd31224 0dd312224 0dd31224 0dd312224 0dd312224 0dd312224 0dd312224 0d
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **EDL NA Recips-Hancock County** Sample No. : WC0898166 HANCOCK COUNTY POWER STATION, 3574 TOWNSHIP ROAD 142 Received : 18 Apr 2024 Lab Number : 06153275 Tested : 19 Apr 2024 FINDLAY, OH Unique Number : 10983353 Diagnosed : 22 Apr 2024 - Sean Felton US 45840 Test Package : MOB 2 Contact: TIM CUSICK Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tim.cusick@edlenergy.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: 

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

Report Id: ENEFIN [WUSCAR] 06153275 (Generated: 04/22/2024 17:58:46) Rev: 1

Submitted By: TIM CUSICK

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Page 2 of 2

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