

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



HANM02BE (S/N 3RC00182) Component

Biogas Engine

CHEVRON HDAX LFG SAE 40 (--- 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

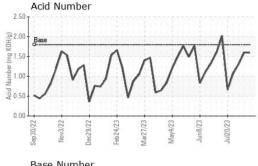
Fluid Condition

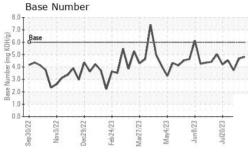
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

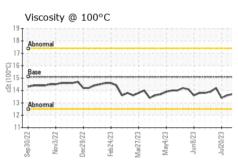
SAE 40 (GAL)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0802706	WC0802687	WC0802692	
Sample Date		Client Info		15 Aug 2023	10 Aug 2023	02 Aug 202	
Machine Age	hrs	Client Info		67037	66922	66728	
Oil Age	hrs	Client Info		736	641	447	
Oil Changed		Client Info		Not Changd	Not Changd	Not Chango	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIC	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	4	5	3	
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>5	0	0	0	
Aluminum	ppm	ASTM D5185m	>6	4	2	2	
Lead	ppm	ASTM D5185m	>9	3	<1	2	
Copper	ppm	ASTM D5185m	>14	2	2	2	
Tin	ppm	ASTM D5185m	>4	6	6	5	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		1	1	<1	
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		15	14	16	
Calcium	ppm	ASTM D5185m		2004	2003	1880	
Phosphorus	ppm	ASTM D5185m	270	291	298	278	
Zinc	ppm	ASTM D5185m	310	364	370	358	
Sulfur	ppm	ASTM D5185m		2543	2637	2437	
CONTAMINANTS	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>181	137	150	126	
Sodium	ppm	ASTM D5185m		<1	3	3	
Potassium	ppm	ASTM D5185m	>20	0	<1	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0	0	
	Abs/cm	*ASTM D7624	>20	6.9	6.8	6.6	
Nitration	7 10 07 0111						
	Abs/.1mm	*ASTM D7415	>30	19.9	19.7	19.3	
	Abs/.1mm	*ASTM D7415 method	>30 limit/base	19.9 current	19.7 history1		
Sulfation FLUID DEGRAD.	Abs/.1mm						
Sulfation	Abs/.1mm	method *ASTM D7414	limit/base	current	history1	history2	

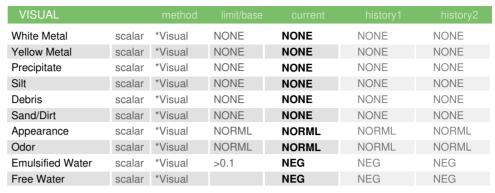


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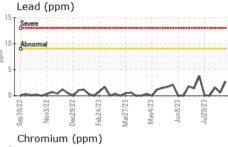


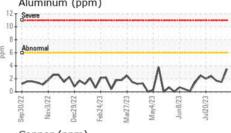


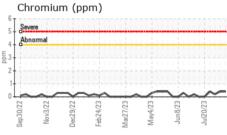
FLUID PROPER	THES	method			riistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.1	14.0	14.0	13.7

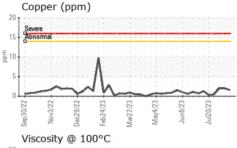
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Seve	re							
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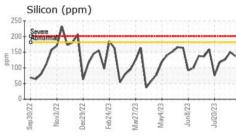
GRAPHS

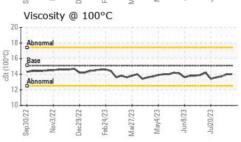


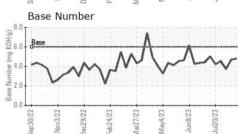
















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: WC0802706 : 05927421 : 10607368 : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician

: 17 Aug 2023 : 18 Aug 2023 : Angela Borella

EDL NA Recips-Hancock County HANCOCK COUNTY POWER STATION, 3574 TOWNSHIP ROAD 142

FINDLAY, OH US 45840

Contact: TIM CUSICK

tim.cusick@energydevelopments.com T:

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)

Report Id: ENEFIN [WUSCAR] 05927421 (Generated: 08/18/2023 12:30:39) Rev: 1

Submitted By: TIM CUSICK

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