

OIL ANALYSIS REPORT

- Sam

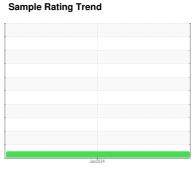
NORMAL



Byron Center CAT 3 BYCM03BE

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

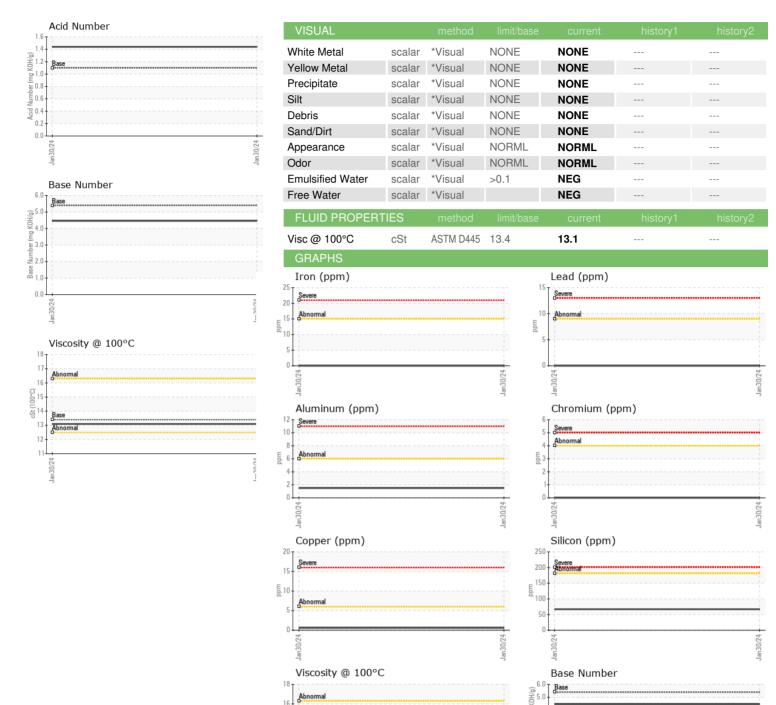
Fluid Condition

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.

ENGINE OIL 40 (GAL)			Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877086		
Sample Date		Client Info		30 Jan 2024		
Machine Age	hrs	Client Info		66593		
Oil Age	hrs	Client Info		264		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
-uel		WC Method	>4.0	<1.0		
Vater		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>15	0		
Chromium	ppm	ASTM D5185m	>4	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>6	2		
ead	ppm	ASTM D5185m	>9	0		
Copper	ppm	ASTM D5185m	>6	<1		
-in	ppm	ASTM D5185m	>4	2		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1		
Barium	ppm	ASTM D5185m		<1		
Nolybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
/lagnesium	ppm	ASTM D5185m		8		
Calcium	ppm	ASTM D5185m		1595		
Phosphorus	ppm	ASTM D5185m		240		
Zinc	ppm	ASTM D5185m		295		
Sulfur	ppm	ASTM D5185m		1805		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	67		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0		
Nitration	Abs/cm	*ASTM D7624	>20	4.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.2		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.9		
Acid Number (AN)	mg KOH/g	ASTM D8045	1.1	1.44		
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	4.46		



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Certificate L2367

Report Id: EDLBYR [WUSCAR] 06077055 (Generated: 02/08/2024 12:26:31) Rev: 1

Laboratory Sample No.

Lab Number : 06077055 Unique Number: 10859146 Test Package : MOB 2

:St (100°C)

: WC0877086

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

: 01 Feb 2024 : 02 Feb 2024

: 02 Feb 2024 - Sean Felton

Number (n 3.0

EDL NA Recips-Byron Center

Byron Center Powerstation, 10310 South Kent Road Byron Center, MI US 49315

Contact: Jake Ripke Jake.Ripke@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

T:

F: