

OIL ANALYSIS REPORT

Sample Rating Trend





Brent Run CAT 5 BRRM05BE

Biogas Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 200 hour sample)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

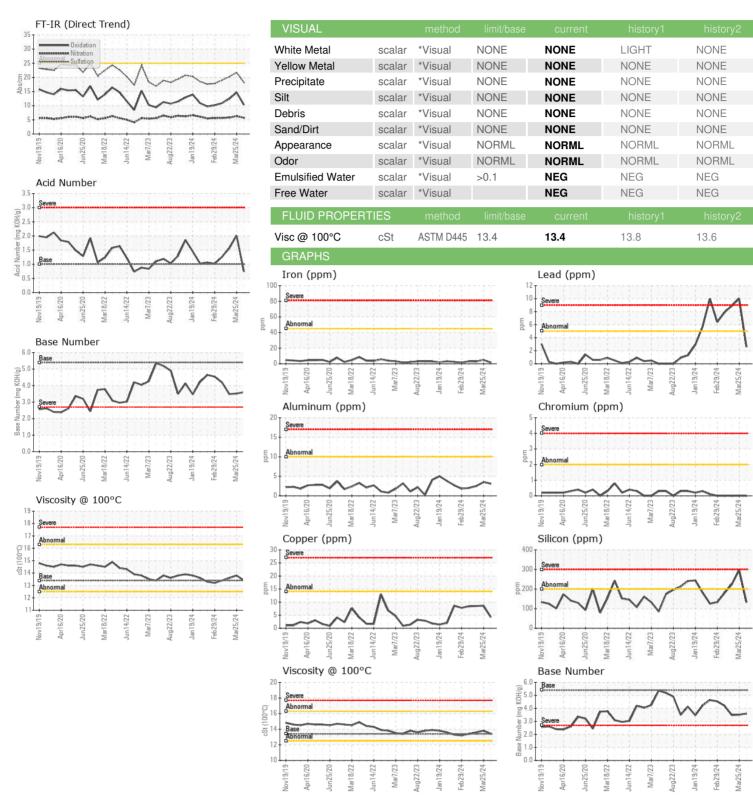
Fluid Condition

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 Number Client Info WC0915819 WC0776720 WC0775 Sample Date Client Info 12 Apr 2024 25 Mar 2024 15 Mar Machine Age hrs Client Info 236 1001 790	ENGINE OIL 40 (- GAL)	NZU19 APIZUZI	i Junzuzu marzuzz Junzuz	Z MarZUZ3 AugZUZ3 JanZUZ4 Febz	ULY Maleuly	
Sample Date	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 83853 83617 83353 Oil Age hrs Client Info 236 1001 790 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status Normal SEVERE SEVERE CONTAMINATION method Imitibase current history1 his Fuel WC Method >4.0 <1.0	ample Number		Client Info		WC0915819	WC0776720	WC0776708
Oil Age hrs Client Info 236 1001 790 Oil Changed Sample Status Client Info Not Changd	ample Date		Client Info		12 Apr 2024	25 Mar 2024	15 Mar 202
Coli Changed Cilient Info Not Changed Not Chang	lachine Age	hrs	Client Info		83853	83617	83353
NORMAL SEVERE SEVERE SEVERE CONTAMINATION method limit/base current history1 h	il Age	hrs	Client Info		236	1001	790
CONTAMINATION	il Changed		Client Info		Not Changd	Not Changd	Not Change
Fuel					NORMAL	_	SEVERE
Water Glycol WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 his Iron ppm ASTM D5185m >45 1 5 3 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	CONTAMINATION		method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>4.0	<1.0	<1.0	<1.0
WEAR METALS	√ater at the state of the stat		WC Method	>0.1	NEG	NEG	NEG
Iron	ilycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	on	ppm	ASTM D5185m	>45	1	5	3
Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m >5 0 0 0 Aluminum ppm ASTM D5185m >5 0 0 0 Lead ppm ASTM D5185m >5 3 10 9 Copper ppm ASTM D5185m >14 4 9 8 Tin ppm ASTM D5185m >13 3 6 5 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 his Boron ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 his Boron ppm ASTM D5185m 2 6 6 6 <	hromium	ppm	ASTM D5185m	>2	0	0	0
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Sulfation Abs/.1mm *ASTM D7415 >30 18.2 21.7 20.2 FLUID DEGRADATION method limit/base current history1 his Oxidation Abs/.1mm *ASTM D7414 >25 10.3 14.7 12.4 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.74 2.01 1.57	litration	Abs/cm	*ASTM D7624	>20	5.7	6.3	5.8
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							1.57
Base Number (BN) mg KOH/g ASTM D2896 5.4 3.60 3.52 3.48							3.48



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Test Package : MOB 2

: WC0915819 Lab Number : 06150575 Unique Number : 10980653

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

: 17 Apr 2024 Diagnosed : 18 Apr 2024 - Sean Felton

: 16 Apr 2024

Brent Run Power Station, 8383 Vienna Road Montrose, MI US 48457-9141

Contact: Rob Stewart Rob.Stewart@energydevelopments.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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: EDLMON [WUSCAR] 06150575 (Generated: 04/18/2024 13:30:29) Rev: 1

Submitted By: DOUG HINE

EDL NA Recips-Brent Run

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