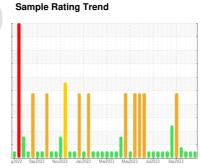


OIL ANALYSIS REPORT







Machine Id BRCM02BE (S/N GZJ00659) Component

Biogas Engine

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (--- GAL)

Sample NumberClient InfoWC0760819WC0760816WC076Sample DateClient Info16 Oct 202311 Oct 202302 OctMachine AgehrsClient Info708757082370748Oil AgehrsClient Info438350275Oil ChangedClient InfoNot ChangdN/ANORMALNORMAL	t 2023
Sample DateClient Info16 Oct 202311 Oct 202302 OctMachine AgehrsClient Info708757082370748Oil AgehrsClient Info438350275Oil ChangedClient InfoNot ChangdNot ChangdN/ASample StatusImather ContraminationNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1hisFuelWC Method>4.0<1.0<1.0<1.0	t 2023 1AL
Machine AgehrsClient Info708757082370748Dil AgehrsClient Info438350275Dil ChangedClient InfoNot ChangdN/ASample StatusImather ContraminationNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1FuelWC Method>4.0<1.0	1AL
Dil Age hrs Client Info 438 350 275 Dil Changed Client Info Not Changd N/A Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method >4.0 <1.0	1AL
Dil Changed Client Info Not Changd N/A Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method >4.0 <1.0	
NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method >4.0 <1.0 <1.0 <1.0 <1.0 <1.0	
CONTAMINATIONmethodlimit/basecurrenthistory1hisFuelWC Method>4.0<1.0<1.0<1.0	
Fuel WC Method >4.0 <1.0 <1.0	story2
Glycol WC Method NEG NEG NEG	0
	G
WEAR METALS method limit/base current history1 his	story2
ron ppm ASTM D5185m >15 <1 <1 0	
Chromium ppm ASTM D5185m >4 0 0 0	
Vickel ppm ASTM D5185m >2 0 0 0	
Titanium ppm ASTM D5185m 0 0 0	
Silver ppm ASTM D5185m >5 0 0 0	
Aluminum ppm ASTM D5185m >6 2 2 1	
_ead ppm ASTM D5185m >9 <1 <1 1	
Copper ppm ASTM D5185m >6 <1 0 <1	
Fin ppm ASTM D5185m >4 4 3 3	
/anadium ppm ASTM D5185m 0 0 0	
Cadmium ppm ASTM D5185m 0	
ADDITIVES method limit/base current history1 his	
	story2
Boron ppm ASTM D5185m 8 9 8	story2
	story2
Barium ppm ASTM D5185m <1 0 0	story2
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3	story2
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1 <1 <1	story2
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36 3 73 story2
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Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36 3 73 story2
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Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36 3 73 story2 story2
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36 3 3 story2 story2 4 story2
Barium ppm ASTM D5185m <1 0 0 Molybdenum ppm ASTM D5185m 3 4 3 Manganese ppm ASTM D5185m <1	36 3 3 story2 story2 4 story2 8

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

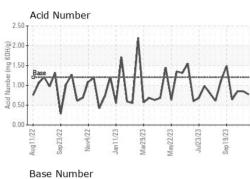
There is no indication of any contamination in the oil.

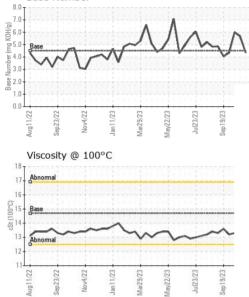
Fluid Condition

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.



OIL ANALYSIS REPORT





	VISUAL		method	limit/base		history1	history2
	/hite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Y	ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
P	recipitate	scalar	*Visual	NONE	NONE	NONE	NONE
S	ilt	scalar	*Visual	NONE	NONE	NONE	NONE
D	ebris	scalar	*Visual	NONE	NONE	NONE	NONE
S	and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
A	ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
0	dor	scalar	*Visual	NORML	NORML	NORML	NORML
E	mulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
F	ree Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPERT	TIES	method	limit/base	e current	history1	history2
7 V	isc @ 100°C	cSt	ASTM D445	14.7	13.4	13.3	13.3
	GRAPHS						
	Iron (ppm)				Lead (ppm)		
25	Severe				15 Severe		
20-	Annormal				10 - Abnormal		
e 15 -	•			mdd	0		
1.0029	A				5		· ^
5 -	Imm	~	~~		10000	~ -	m
01	22	23	23-	3		23	23
	Aug11/22 - Sep23/22 - Nov4/22 - Jan11/23 -	Mar29/23	May22/23 Jul23/23		Aug11/22 - Sep23/22 - Nov4/22 -	Jan 1 1/23 Mar 2 9/23 May 2 2/23	Jul23/23 Sep19/23
	Aluminum (ppm)	2	2 ' 0	0	∝ Chromium (p		· · · ·
15 T	Aluminum (ppm)				6 T	piii)	
	Severe				5 - Severe		
_ 10					4 - Abnormal		
mqq	Abnormal						
5 -	14.2		M	Λ	2		
0		Vh/		14	Inn	mas	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Aug 11/22 Sep 23/22 Nov4/22 Jan 11/23	Mar29/23	May22/23 . Jul23/23 .	c7/c	Aug11/22 - Sep23/22 - Nov4/22 -	Jan 11/23 Mar29/23 May22/23	Jul23/23 -
	Aug1 Sep2 Nov Jan1	Mar2	May2 Jul2	100	Aug 1 Sep 2 Nov	Jan 1 Mar2 May2	Jul2 Sep1
	Copper (ppm)				Silicon (ppm)		
25					⁶⁰⁰ T	1111111111111	
20-	Severe				500-		
e 15-	0			4 Ed 3	100		
¹⁰ 10-	Abnormal			1		A	A
5 -						VWV V	wi
0				3	2	3 13	n n
	Aug 11/22 Sep 23/22 No v4/22 Jan 11/23	Mar29/23	May22/23 Jul23/23	7/c i de	Aug 11/22 - Sep 23/22 - Nov4/22 -	Jan 11/23 Mar 29/23 May 22/23	Jul23/23 Sep 19/23
			il S	0			Sel
18-	Viscosity @ 100°C				Base Number		
	Abnormal			(B/H,			A
0 0	Base			Base Number (mg KOH/g)	6.0 - Base	~//	MI
(0-001) 255 (100-cSt		V	-	per (n	4.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×
	Abnormal	~	~	Num	2.0		
⁷ 3 12 -				Base	0.0		
12-	100000000000000000000000000000000000000		23		Aug11/22	Jan 11/23 Mar29/23	Jul23/23 -
12-	/22 +	1/23		9	111 223	111 125 127	015
12-	Aug 11/22	Mar29/23	Jul23/23	n can	Aug Aug	Ma Ma	Sel
12-	Aug11/22	Mar29/23	May22/23 Jul23/23		Aug Sey N	Jai Ma	Ju
12 10	VearCheck USA - 5	501 Madi	son Ave., Ca	ary, NC 275 [.]	13 E	DL NA Recips-	Brown Cour
12 10	VearCheck USA - 5 VC0760819	501 Madia Receive d	son Ave., Ca d : 18	ary, NC 275 [.] Oct 2023	13 E	DL NA Recips- OUNTY POWER STAT	-Brown Cour ION, 9427 BEYERS
12- 10- - V - V - V - V	VearCheck USA - 5 VC0760819 <mark>5982539</mark>	501 Madis Received Diagnos	son Ave., Ca d : 18 ed : 19	ary, NC 275 [.] Oct 2023 Oct 2023	13 E	DL NA Recips- OUNTY POWER STAT	• Brown Cour ION, 9427 BEYERS RGETOWN, (
2 · · · · · · · · · · · · · · · · · · ·	VearCheck USA - 5 VC0760819 <mark>5982539</mark> 0699834	501 Madia Receive d	son Ave., Ca d : 18 ed : 19	ary, NC 275 [.] Oct 2023	13 E	DL NA Recips- OUNTY POWER STAT GEOF	Brown Cour ION, 9427 BEYERS RGETOWN, (US 451
2 : V : V : V : V : V : V : V : V	VearCheck USA - 5 VC0760819 <mark>5982539</mark>	501 Madia Received Diagnos Diagnost	son Ave., Ca d : 18 ed : 19 tician : Sea	ary, NC 275 [.] Oct 2023 Oct 2023 an Felton	13 E Brown C	DL NA Recips- OUNTY POWER STAT	Brown Cour ION, 9427 BEYERS RGETOWN, (US 451 CHELL BUTLI



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