

## **OIL ANALYSIS REPORT**

Sample Rating Trend

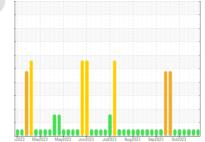
### NORMAL



Machine Id SJNM01BE Component

Biogas Engine

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





G GAS ENGINE OIL ( GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865651	WC0865646	WC0865669
Sample Date		Client Info		20 Nov 2023	16 Nov 2023	09 Nov 202
Machine Age	hrs	Client Info		68353	68254	68086
Oil Age	hrs	Client Info		921	822	654
Oil Changed		Client Info		Changed	Not Changd	Not Chango
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	3	<1	3
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	<1
Aluminum	ppm	ASTM D5185m	>6	2	2	2
Lead	ppm	ASTM D5185m	>9	3	3	3
Copper	ppm	ASTM D5185m	>6	2	1	2
Tin	ppm	ASTM D5185m	>4	3	3	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	3	4
Barium	ppm	ASTM D5185m		0	0	6
Molybdenum	ppm	ASTM D5185m		4	2	5
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		27	31	29
Calcium	ppm	ASTM D5185m		2023	2182	2058
Phosphorus	ppm	ASTM D5185m		256	338	344
Zinc	ppm	ASTM D5185m		378	433	379
Sulfur	ppm	ASTM D5185m		2748	2584	2766
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	168	170	160
Sodium	ppm	ASTM D5185m		5	8	4
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.9	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.9	21.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	18.8	17.2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	1.59	1.26	1.734
Deen Number (DN)	ma 1/011/-	ACTM DOOOC	1 5	4 60	1.01	1.00

4.69

Base Number (BN) mg KOH/g ASTM D2896 4.5

#### 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

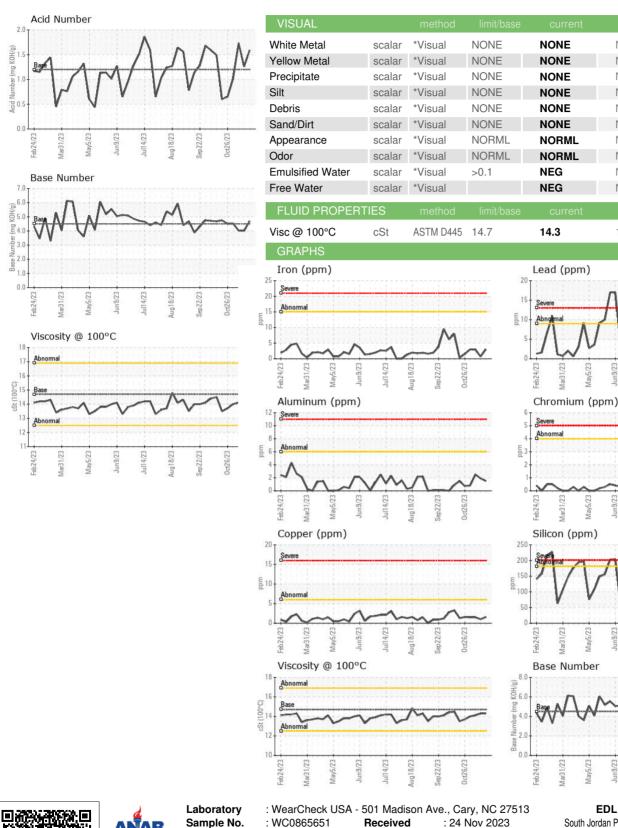
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

4.02

4.01



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**EDL NA Recips-South Jordan** South Jordan Powerstation, 10473 S. Bacchus Hwy. South Jordan, UT US 84095 Contact: Aaron Klein aaron.klein@edlenergy.com T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

ul14/73

Aug 18/23 Sep 22/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.3

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.1

ug18/23

ul14/73

ul14/73 Vug18/23 50100m

Aav5/7

Aav5/73

Lab Number

Unique Number

Test Package

:06017518

: 10756662

: MOB 2

Diagnosed

Diagnostician

: 29 Nov 2023

: Jonathan Hester

Submitted By: Aaron Klein

Page 2 of 2