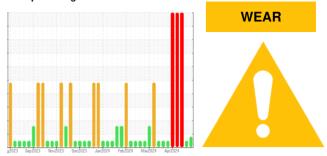


OIL ANALYSIS REPORT

Sample Rating Trend



Keyer

Machine Id SJNM02BE

Biogas Engine

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865689	WC0865737	WC0865728
Sample Date		Client Info		07 Jun 2024	30 May 2024	09 May 202
Machine Age	hrs	Client Info		116578	116457	116074
Oil Age	hrs	Client Info		480	359	946
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	SEVERE
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
-			11 1. 11	-		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>14	4	0	5
Chromium	ppm	ASTM D5185m	>3	<1	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	1	2
Lead	ppm	ASTM D5185m	>8	3	1	5
Copper	ppm	ASTM D5185m	>5	3	2	3
Tin	ppm	ASTM D5185m	>3	A 3	2	▲ 5
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	2
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		4	3	6
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		17	18	27
Calcium	ppm	ASTM D5185m		1926	1912	2162
Phosphorus	ppm	ASTM D5185m		261	296	374
Zinc	ppm	ASTM D5185m		354	355	408
Sulfur	ppm	ASTM D5185m		2224	2129	2808
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	166	126	2 37
Sodium	ppm		>20	0	0	0
Potassium	ppm	ASTM D5185m	>20	2	0	3
INFRA-RED		method	limit/base	current	history1	history2
	0/					
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624		7.1	6.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415		20.4	19.8	24.4
	ATION	method	limit/base	current	history1	history2
FLUID DEGRAD						
Oxidation	Abs/.1mm	*ASTM D7414		15.6	14.3	22.0
	mg KOH/g	*ASTM D7414 ASTM D8045 ASTM D2896	1.0 5.4	15.6 1.36 3.95	14.3 1.15 4.19	22.0 1.85 2.73

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

The tin level is abnormal.

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

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an17/7/

Received

Diagnosed

Tested

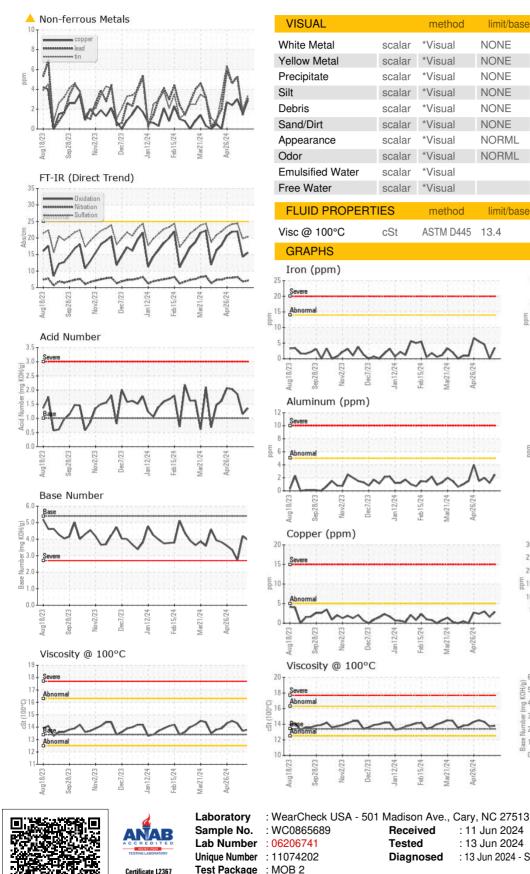
To discuss this sample report, contact Customer Service at 1-800-237-1369.

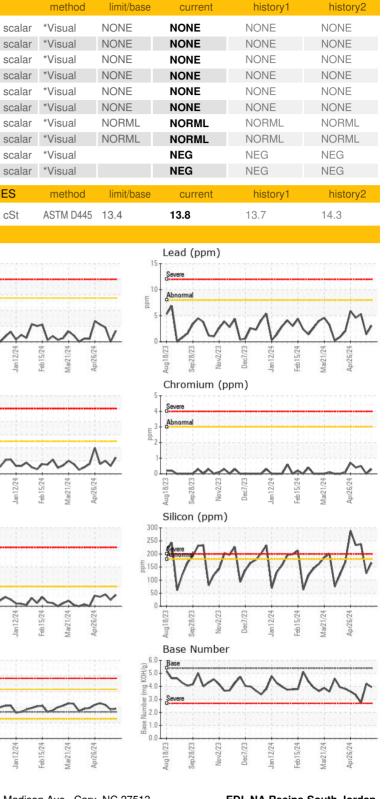
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: 11 Jun 2024

: 13 Jun 2024

: 13 Jun 2024 - Sean Felton





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:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: EDLSOU [WUSCAR] 06206741 (Generated: 06/13/2024 14:14:06) Rev: 1

Submitted By: Aaron Klein

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