

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR WEAR



Machine Id SJNM01BE Component Biogas Engine Fluid

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

DIAGNOSIS

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.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	IVIATION		IIIIIIVDase			
Sample Number		Client Info		WC0865735	WC0865693	WC0865716
Sample Date		Client Info		07 Jun 2024	30 May 2024	09 May 2024
Machine Age	hrs	Client Info		72865	72756	116074
Oil Age	hrs	Client Info		567	458	116074
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	SEVERE
CONTAMINATIO	N	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
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>14	3	0	4
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	2	2
Lead	ppm	ASTM D5185m	>8	3	2	4
Copper	ppm	ASTM D5185m	>5	2	<1	2
Γin	ppm	ASTM D5185m		<u>^</u> 3	2	<u> 5</u>
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	26
Calcium	ppm	ASTM D5185m		2054	2034	2262
Phosphorus	ppm	ASTM D5185m		299	303	394
Zinc	ppm	ASTM D5185m		393	378	435
Sulfur	ppm	ASTM D5185m		2422	2174	2893
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	157	135	▲ 213
Sodium	ppm	ASTM D5185m	>20	0	0	0
Potassium	ppm	ASTM D5185m	>20	2	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		7.8	7.5	8.1
Sulfation	Abs/.1mm	*ASTM D7415		21.9	21.2	23.4
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		18.6	17.0	20.9
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.49	1.57	1.69
Daga Number (DNI)	ma I/OI I/a	ACTM DOOG	F 4	4.02	2.07	2.00

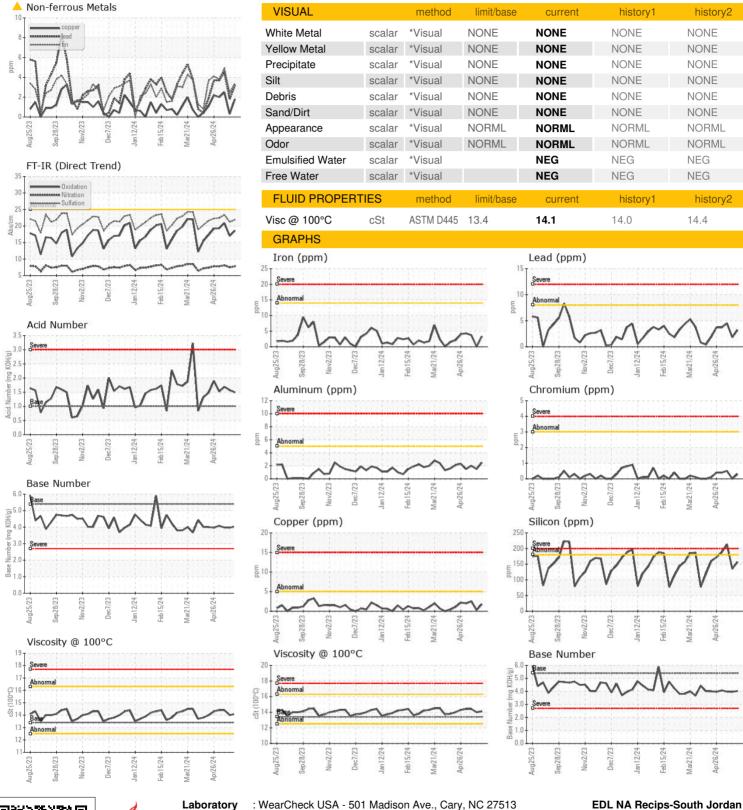
4.03

Base Number (BN) mg KOH/g ASTM D2896 5.4

3.98



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06206740 Unique Number : 11074201

: WC0865735

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Jun 2024

Tested : 13 Jun 2024 Diagnosed : 13 Jun 2024 - Sean Felton

South Jordan Powerstation, 10473 S. Bacchus Hwy. South Jordan, UT

US 84095 Contact: Aaron Klein aaron.klein@edlenergy.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)

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