

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id SJNM02BE

Biogas Engine

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

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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865691	WC0865689	WC0865737
Sample Date		Client Info		13 Jun 2024	07 Jun 2024	30 May 2024
Machine Age	hrs	Client Info		116715	116578	116457
Oil Age	hrs	Client Info		617	480	359
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	J	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
PQ		ASTM D8184		13		
Iron	ppm	ASTM D5185m	>14	2	4	0
Chromium	ppm	ASTM D5185m	>3	<1	<1	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	1
Lead	ppm	ASTM D5185m	>8	3	3	1
Copper	ppm	ASTM D5185m	>5	3	3	2
Tin	ppm	ASTM D5185m	>3	3	<u> </u>	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	4	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		20	17	18
Calcium	ppm	ASTM D5185m		2031	1926	1912
Phosphorus	ppm	ASTM D5185m		317	261	296
Zinc	ppm	ASTM D5185m		377	354	355
Sulfur	ppm	ASTM D5185m		2690	2224	2129
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	168	166	126
Sodium	ppm	ASTM D5185m	>20	2	0	0
Potassium	ppm	ASTM D5185m	>20	2	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624		7.5	7.1	6.8
Sulfation	Abs/.1mm	*ASTM D7415		21.5	20.4	19.8



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Certificate 12367



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Laboratory

Sample No.

Lab Number

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Submitted By: Aaron Klein

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