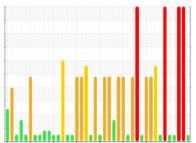


OIL ANALYSIS REPORT

Sample Rating Trend









IRGM01BE (S/N CTL0580)

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (160 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	MATION	method	limit/base	current	history1	history2
	MATION		IIIIIIVDase		· ·	•
Sample Number		Client Info		WC0789114	WC0789113	WC0789112
Sample Date	bro	Client Info		13 May 2024	06 May 2024	03 May 2024 16273
Machine Age	hrs			16468	16342 404	335
Oil Age	hrs	Client Info		107 N/A		N/A
Oil Changed		Client Info		NORMAL	Changed SEVERE	SEVERE
Sample Status						
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>.11	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	4	6	▲ 17
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	3	2
Lead	ppm	ASTM D5185m	>9	1	7	6
Copper	ppm	ASTM D5185m	>6	1	3	4
Tin	ppm	ASTM D5185m	>4	<1	A 7	6
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	4	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		9	5	6
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		34	16	15
Calcium	ppm	ASTM D5185m		2030	1895	1787
Phosphorus	ppm	ASTM D5185m		368	321	337
Zinc	ppm	ASTM D5185m		463	403	398
Sulfur	ppm	ASTM D5185m		3352	3390	3233
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	109	1 241	2 30
Sodium	ppm	ASTM D5185m	>21	1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624		5.4	5.8	5.7
Sulfation	Abs/.1mm	*ASTM D7415		18.0	20.6	19.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		10.0	12.8	12.0
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.64	1.69	1.39
					2.07	

4.54

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



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06178985

: WC0789114 Unique Number : 11030311

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024

Tested : 15 May 2024 Diagnosed : 16 May 2024 - Don Baldridge **EDL NA Recips-Iris Glen**

IRIS GLEN POWER STATION, 1705 E MAIN ST JOHNSON CITY, TN US 37601

> Contact: CHRIS SMITH csmith@stowerscat.com T:

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)

F: