

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id PECM04BE

Biogas Engine

CHEVRON HDAX 9500 GAS ENGINE OIL 40 (150 GAL)

SAMPLE INFORMATION method limit/base

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v2020	Dec2	220	Feb2	121	Mari	2021)ct20	21		an20	22	14.	r202	2	Feb2	0.24	 -
¥2020	DIRCZI	020	F60Z	121	IVI dli 4	12021	JULZ L	121	0	anzo	23	IV10	1202	2	reu a	1024	



Recommendation
necommenuation

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.

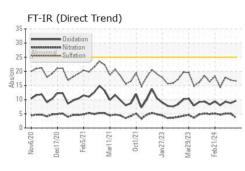
Fluid Condition

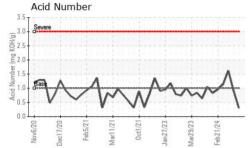
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

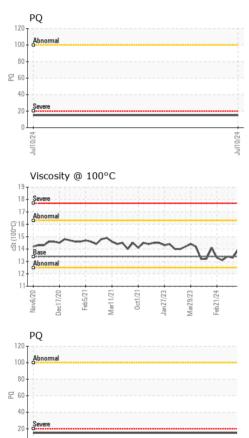
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0788390	WC0788385	WC0788395
Sample Date		Client Info		10 Jul 2024	25 Apr 2024	20 Mar 2024
Machine Age	hrs	Client Info		69682	67977	67054
Oil Age	hrs	Client Info		500	126	329
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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
PQ		ASTM D8184		15		
Iron	ppm	ASTM D5185m	>14	2	0	1
Chromium	ppm	ASTM D5185m	>3	0	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	<1	2
Lead	ppm	ASTM D5185m	>8	<1	0	1
Copper	ppm	ASTM D5185m	>5	<1	2	2
Tin	ppm	ASTM D5185m	>3	2	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		117	8	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	4	5
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		13	18	23
Calcium	ppm	ASTM D5185m		1605	1802	1749
Phosphorus	ppm	ASTM D5185m		409	273	288
Zinc	ppm	ASTM D5185m		512	332	340
Sulfur	ppm	ASTM D5185m		3848	2606	2985
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>180	79	86	138
Sodium	ppm	ASTM D5185m	>20	<1	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nituation						
Nitration	Abs/cm	*ASTM D7624		3.6	5.1	5.1
Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		3.6 16.6	5.1 16.9	5.1 17.9



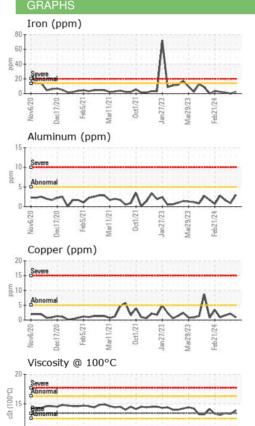
OIL ANALYSIS REPORT

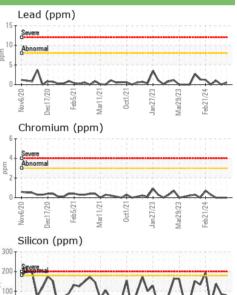


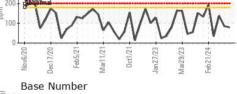


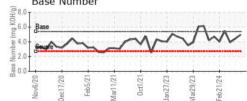


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		9.6	8.8	9.3
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.30	0.91	1.62
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	4.96	4.43	3.92
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.4	13.9	13.3	13.4









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **EDL NA Recips-Pecan Row** Sample No. : WC0788390 Received : 12 Jul 2024 PECAN ROW POWER STATION, 2995 WHETHERINGTON LN Lab Number : 06235115 Tested : 15 Jul 2024 VALDOSTA, GA Unique Number : 11123949 Diagnosed : 15 Jul 2024 - Sean Felton US 31601 Test Package : MOB 2 (Additional Tests: PQ) Contact: JASON JONES Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jason.jones@energydi.com * - 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)

Mar11/21

Feb5/21

Dec17/20

Feb21/24

an27/23

Var29/23

Oct1/21

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Nov6/20

Report Id: ENEVAL [WUSCAR] 06235115 (Generated: 07/18/2024 13:07:13) Rev: 1

Submitted By: JASON JONES Page 2 of 2

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