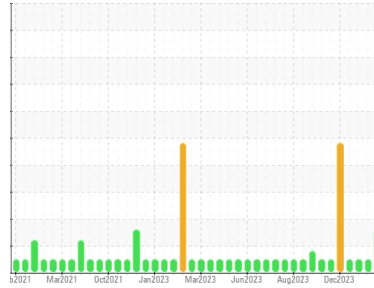




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
PECM02BE
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (150 GAL)

DIAGNOSIS

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0788280	WC0788277	WC0788275
Sample Date	Client Info			21 Feb 2024	07 Feb 2024	23 Jan 2024
Machine Age	hrs	Client Info		68113	67974	74545
Oil Age	hrs	Client Info		469	330	60
Oil Changed	Client Info			Not Chngd	Not Chngd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0	<1.0
Water	WC Method	>0.1	NEG	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	3	0	<1
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>6	<1	<1	3
Lead	ppm	ASTM D5185m	>9	2	1	<1
Copper	ppm	ASTM D5185m	>6	2	1	1
Tin	ppm	ASTM D5185m	>4	3	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	12	12
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		6	2	4
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		24	16	20
Calcium	ppm	ASTM D5185m		2040	1590	1751
Phosphorus	ppm	ASTM D5185m		285	201	271
Zinc	ppm	ASTM D5185m		410	305	335
Sulfur	ppm	ASTM D5185m		3558	1949	2536

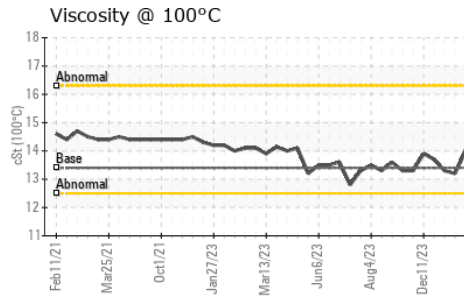
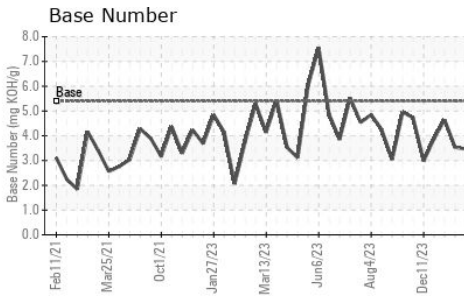
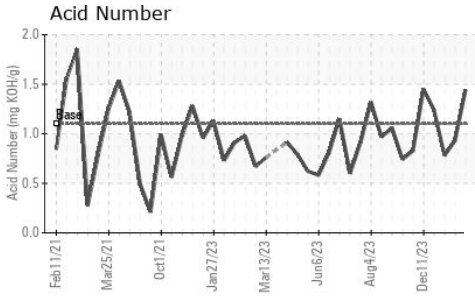
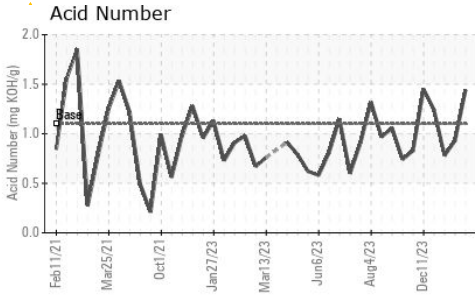
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	▲ 188	65	58
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	<1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.4	5.8	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	20.3	17.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	12.3	9.9
Acid Number (AN)	mg KOH/g	ASTM D8045	1.1	1.44	0.93	0.78
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	3.47	3.53	4.64



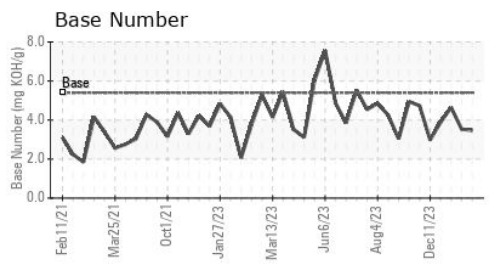
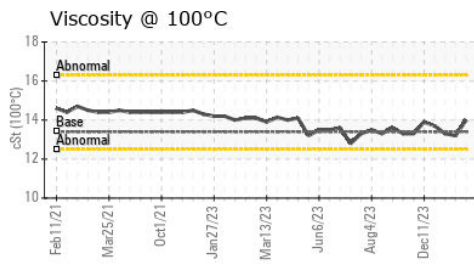
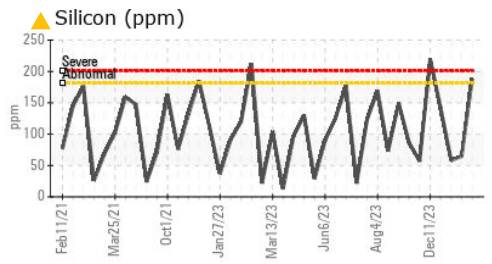
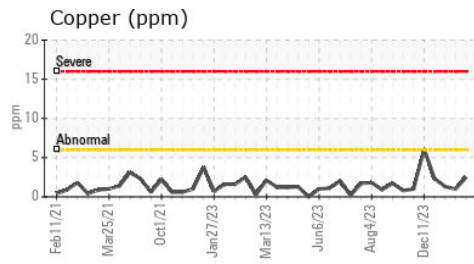
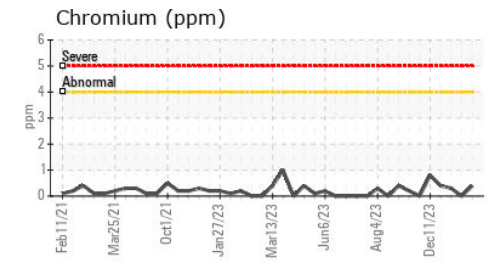
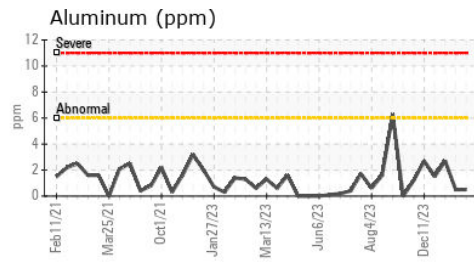
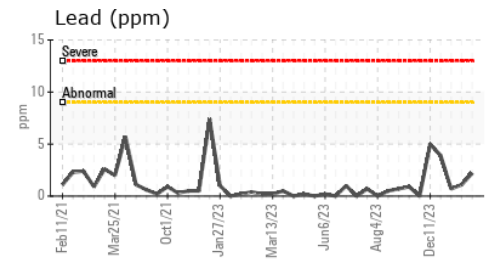
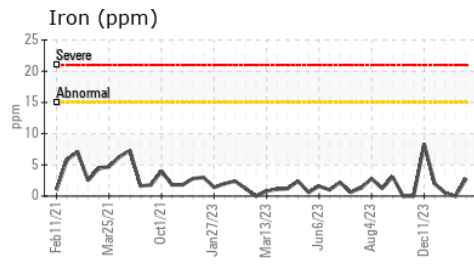
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.4	14.0	13.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0788280
 Lab Number : 06099292
 Unique Number : 10897522
 Test Package : MOB 2

Received : 23 Feb 2024
 Tested : 26 Feb 2024
 Diagnosed : 27 Feb 2024 - Sean Felton

EDL NA Recips-Pecan Row
 PECAN ROW POWER STATION, 2995 WHERINGTON LN
 VALDOSTA, GA
 US 31601
 Contact: JASON JONES
 jason.jones@energydi.com

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.

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

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