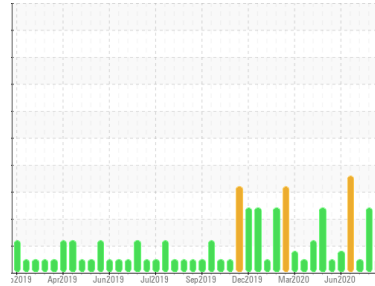


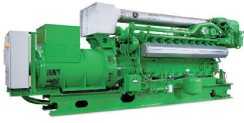


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
EDLTAY
Machine Id
TAYM01BE (S/N 1256576)
Component
Biogas Engine
Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (180 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0788202	WC0526601	WC0372312
Sample Date	Client Info		02 Mar 2023	20 Jan 2023	30 Jul 2020
Machine Age	hrs	Client Info	1660	904	50501
Oil Age	hrs	Client Info	1660	904	384
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Water	WC Method	>.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	2	4	5
Chromium	ppm	ASTM D5185m >4	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m >5	0	0	0
Aluminum	ppm	ASTM D5185m >6	1	2	3
Lead	ppm	ASTM D5185m >20	1	0	0
Copper	ppm	ASTM D5185m >6	<1	2	2
Tin	ppm	ASTM D5185m >4	<1	<1	<1
Antimony	ppm	ASTM D5185m	---	---	4
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	5	4	6
Barium	ppm	ASTM D5185m	0	1	0
Molybdenum	ppm	ASTM D5185m	3	2	2
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m	25	10	12
Calcium	ppm	ASTM D5185m	1594	1791	1573
Phosphorus	ppm	ASTM D5185m	284	294	251
Zinc	ppm	ASTM D5185m	354	375	304
Sulfur	ppm	ASTM D5185m	3925	4043	2893

CONTAMINANTS

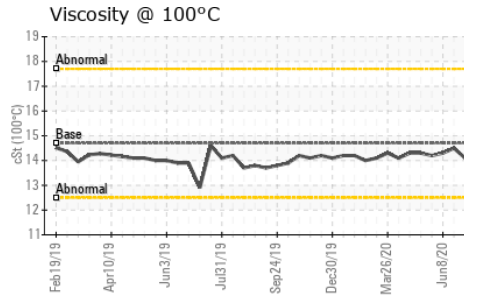
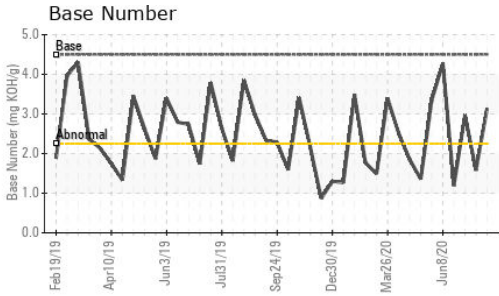
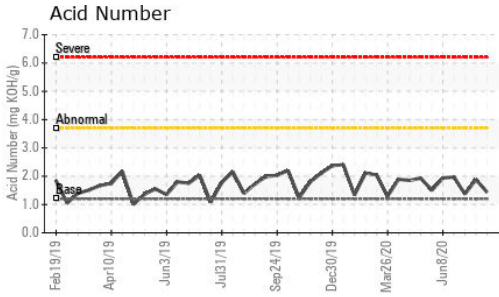
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >181	4	5	28
Sodium	ppm	ASTM D5185m >20	<1	0	2
Potassium	ppm	ASTM D5185m >20	2	2	9

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624 >20	3.8	4.4	3.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.2	24.5	20.7



OIL ANALYSIS REPORT

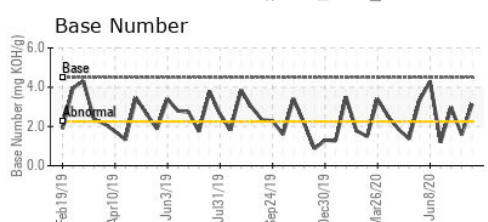
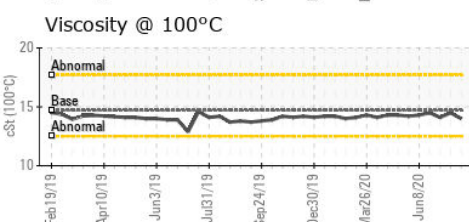
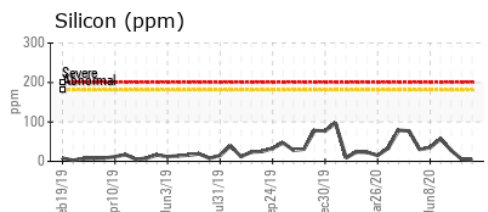
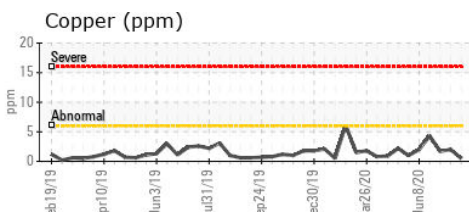
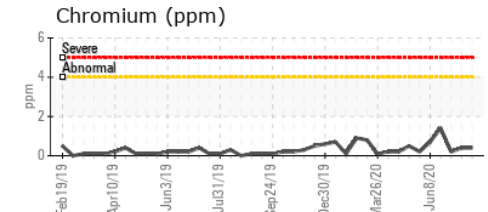
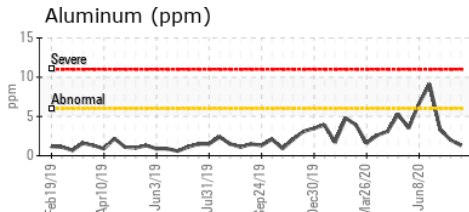
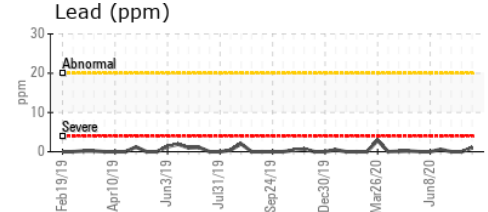
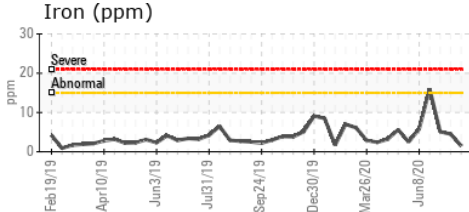


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414	>25	8.4	11.6	8.7
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	1.43	▲ 1.88	1.369
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	3.14	▲ 1.58	2.97

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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.7	14.0	14.5	14.1

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0788202 **Received** : 06 Mar 2023
Lab Number : **05783953** **Diagnosed** : 07 Mar 2023
Unique Number : 10363623 **Diagnostician** : Sean Felton
Test Package : MOB 2

EDL NA Recips-Taylor County
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 MAUK, GA
 US 31058
 Contact: STEVEN BABB
 steven.babb@edlenergy.com
 T:
 F:

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)