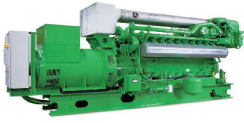




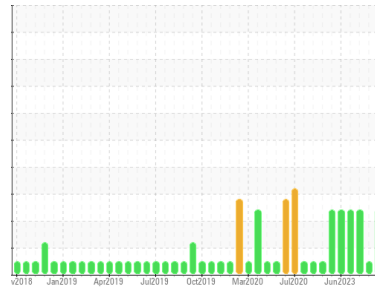
OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Area
EDLTAY
Machine Id
TAYM07BE (S/N 1256580)
Component
Biogas Engine
Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (200 GAL)



DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN level is low. The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0788208	WC0788235	WC0788250
Sample Date	Client Info		26 Sep 2023	09 Aug 2023	01 Aug 2023
Machine Age	hrs	Client Info	4239	112819	112819
Oil Age	hrs	Client Info	54824	54824	57995
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	3	1	5
Chromium	ppm	ASTM D5185m >4	<1	0	1
Nickel	ppm	ASTM D5185m >2	0	<1	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >5	0	0	0
Aluminum	ppm	ASTM D5185m >6	<1	2	3
Lead	ppm	ASTM D5185m >20	<1	<1	<1
Copper	ppm	ASTM D5185m >6	<1	0	1
Tin	ppm	ASTM D5185m >4	5	1	5
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	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1	2
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	7	17
Calcium	ppm	ASTM D5185m	1953	1756	1784
Phosphorus	ppm	ASTM D5185m	294	277	277
Zinc	ppm	ASTM D5185m	373	326	383
Sulfur	ppm	ASTM D5185m	4340	2720	5077

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >181	32	5	16
Sodium	ppm	ASTM D5185m >20	<1	1	0
Potassium	ppm	ASTM D5185m >20	<1	1	2

INFRA-RED

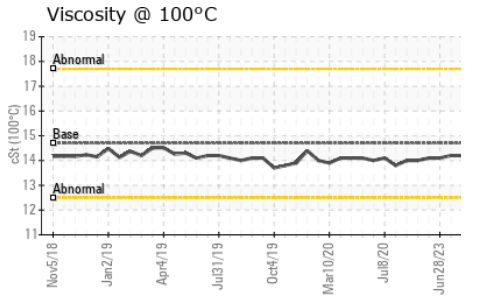
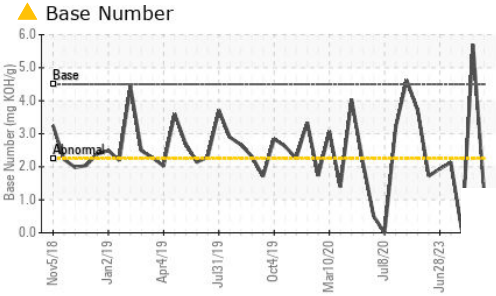
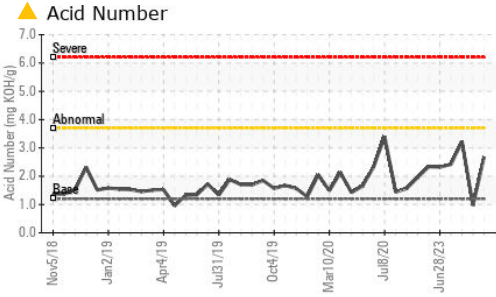
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >2	0	0	0
Nitration	Abs/cm	*ASTM D7624 >20	5.2	4.8	3.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	29.0	16.5	30.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.0	7.9	11.6
Acid Number (AN)	mg KOH/g	ASTM D8045 1.2	▲ 2.68	0.972	▲ 3.22
Base Number (BN)	mg KOH/g	ASTM D2896 4.5	▲ 1.26	5.69	▲ 0.03



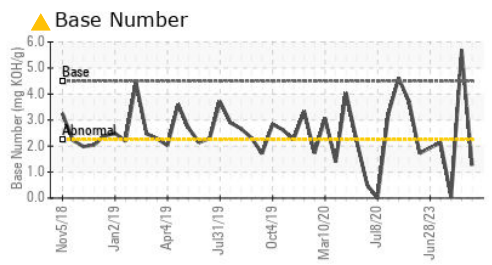
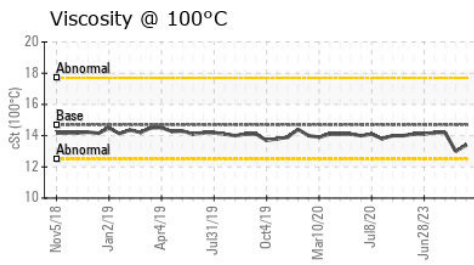
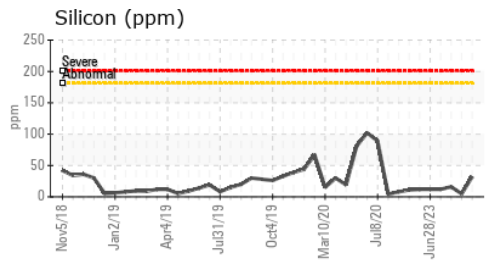
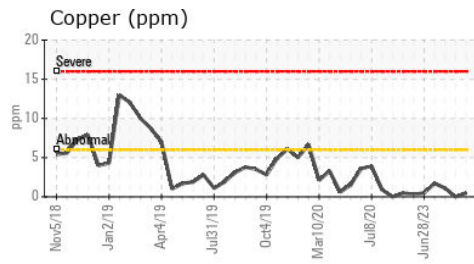
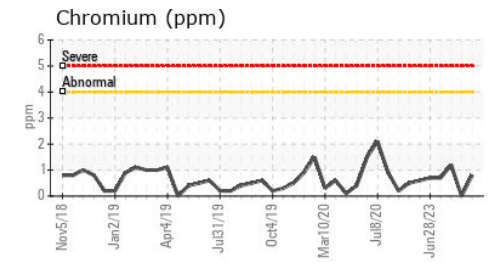
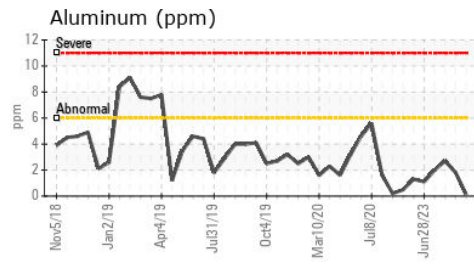
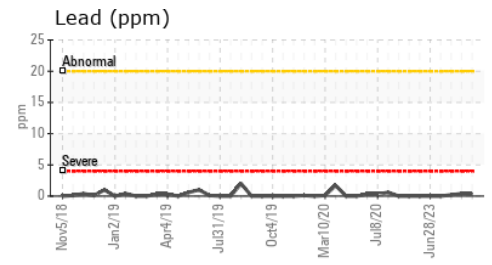
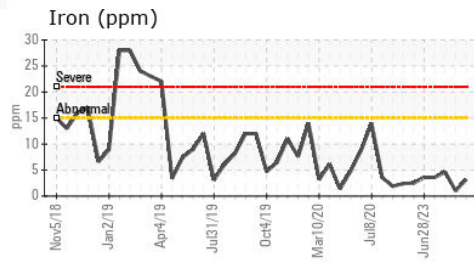
OIL ANALYSIS REPORT



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	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.7	13.4	13.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0788208 **Received** : 02 Oct 2023
Lab Number : 05966502 **Diagnosed** : 04 Oct 2023
Unique Number : 10673053 **Diagnostician** : Don Baldrige
Test Package : MOB 2

EDL NA Recips-Taylor County
 TAYLOR COUNTY POWER STATION, COUNTY ROAD 33 & STEWART ROAD
 MAUK, GA
 US 31058
 Contact: STEVEN BABB
 steven.babb@edlenergy.com
 T:
 F:

Certificate L2367
 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)