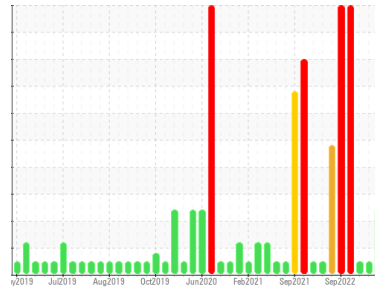




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
EDLTAY
Machine Id
TAYM02BE (S/N 1256574)
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (180 GAL)

DIAGNOSIS

▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. 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 AN level is above the recommended limit. The BN level is low.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0901614	WC0901579	WC0526602
Sample Date	Client Info	13 Mar 2024	05 Mar 2024	20 Jan 2023
Machine Age	hrs	350986	6538	694
Oil Age	hrs	614	431	694
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		ABNORMAL	NORMAL	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	7	4	4
Chromium	ppm ASTM D5185m >4	<1	<1	<1
Nickel	ppm ASTM D5185m >2	0	<1	0
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >5	0	0	0
Aluminum	ppm ASTM D5185m >6	2	2	2
Lead	ppm ASTM D5185m >20	0	0	0
Copper	ppm ASTM D5185m >6	1	1	2
Tin	ppm ASTM D5185m >4	4	2	1
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	4
Barium	ppm ASTM D5185m	0	0	1
Molybdenum	ppm ASTM D5185m	4	4	1
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	8	16	7
Calcium	ppm ASTM D5185m	1869	1734	1663
Phosphorus	ppm ASTM D5185m	286	254	277
Zinc	ppm ASTM D5185m	317	318	340
Sulfur	ppm ASTM D5185m	5021	3652	3688

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >181	11	6	20
Sodium	ppm ASTM D5185m >20	6	4	0
Potassium	ppm ASTM D5185m >20	10	12	2

INFRA-RED

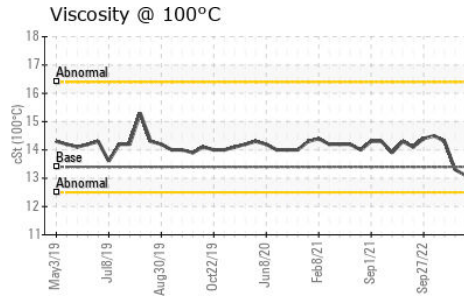
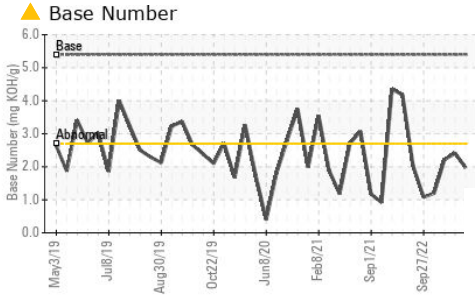
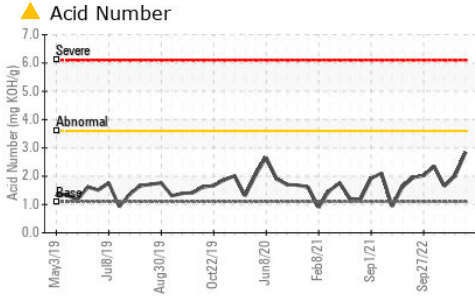
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >2	0.1	0	0
Nitration	Abs/cm *ASTM D7624 >20	4.9	4.8	4.0
Sulfation	Abs/.1mm *ASTM D7415 >30	23.7	20.8	22.3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	10.4	9.3	9.7
Acid Number (AN)	mg KOH/g ASTM D8045 1.1	▲ 2.85	2.01	1.65
Base Number (BN)	mg KOH/g ASTM D2896 5.4	▲ 1.97	2.41	2.22



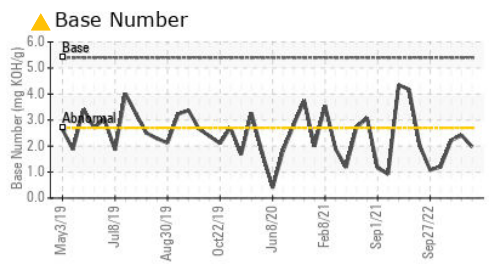
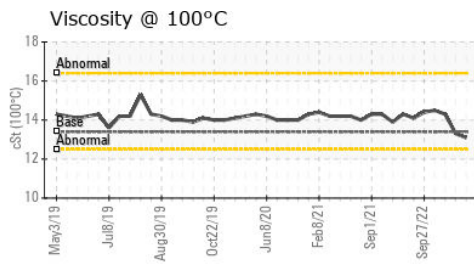
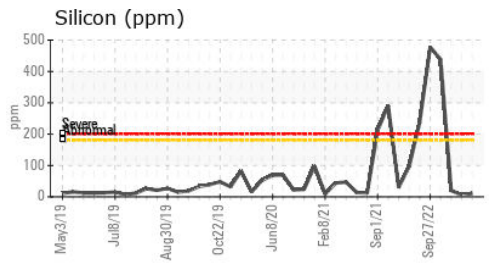
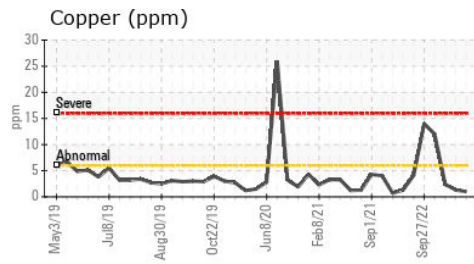
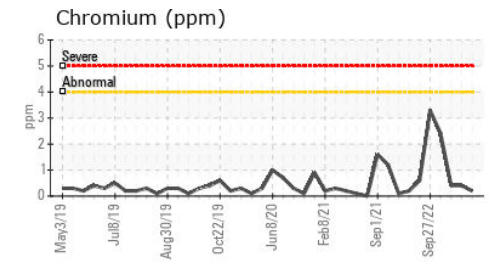
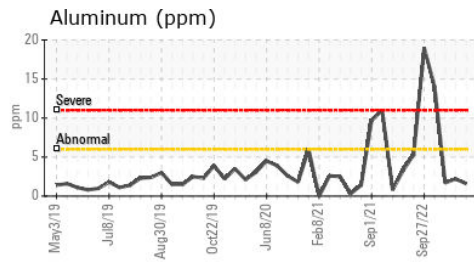
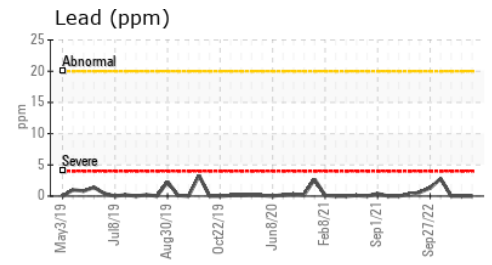
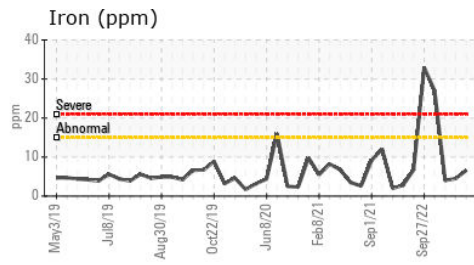
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
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	13.4	13.1	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0901614
Lab Number : 06123242
Unique Number : 10937393
Test Package : MOB 2
Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 22 Mar 2024 - Sean Felton

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

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)