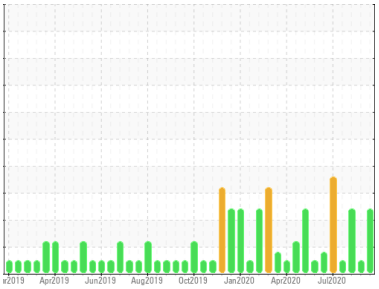
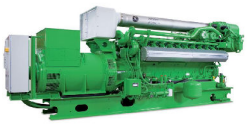
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



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

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been 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		**WC0788163**	WC0788202	WC0526601
Sample Date		Client Info		**05 Jun 2023**	02 Mar 2023	20 Jan 2023
Machine Age	hrs	Client Info		**3571**	1660	904
Oil Age	hrs	Client Info		**3571**	1660	904
Oil Changed		Client Info		**N/A**	Changed	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
Water		WC Method	>.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

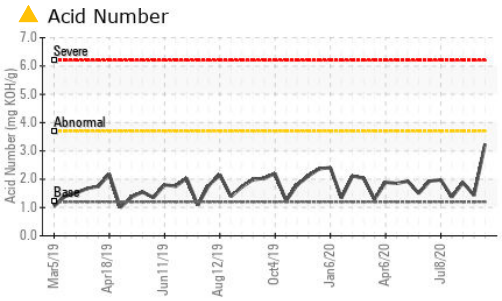
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	**6**	2	4
Chromium	ppm	ASTM D5185m	>4	**1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>6	**1**	1	2
Lead	ppm	ASTM D5185m	>20	**0**	1	0
Copper	ppm	ASTM D5185m	>6	**<1**	<1	2
Tin	ppm	ASTM D5185m	>4	**4**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

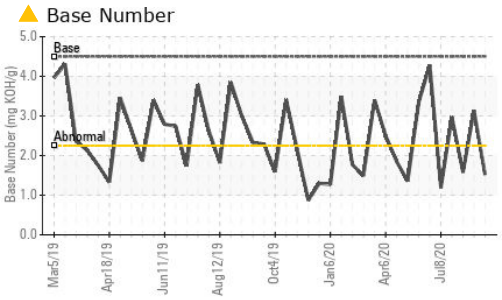
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**1**	5	4
Barium	ppm	ASTM D5185m		**0**	0	1
Molybdenum	ppm	ASTM D5185m		**2**	3	2
Manganese	ppm	ASTM D5185m		**<1**	1	<1
Magnesium	ppm	ASTM D5185m		**19**	25	10
Calcium	ppm	ASTM D5185m		**1898**	1594	1791
Phosphorus	ppm	ASTM D5185m		**311**	284	294
Zinc	ppm	ASTM D5185m		**408**	354	375
Sulfur	ppm	ASTM D5185m		**6113**	3925	4043

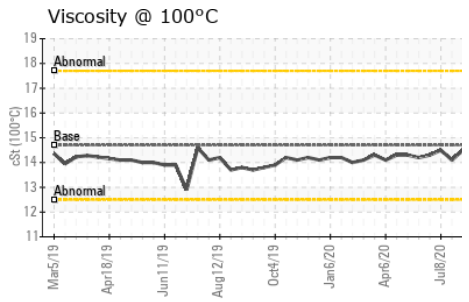
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	**10**	4	5
Sodium	ppm	ASTM D5185m	>20	**2**	<1	0
Potassium	ppm	ASTM D5185m	>20	**1**	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>2	**0.1**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**4.1**	3.8	4.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**33.3**	19.2	24.5

OIL ANALYSIS REPORT





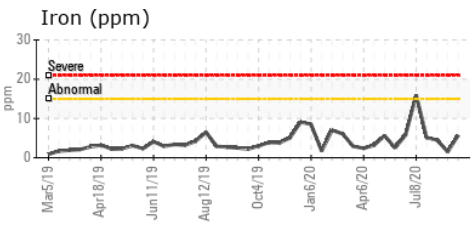


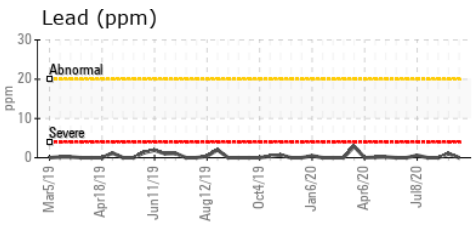
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**13.4**	8.4	11.6
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	▲ **3.24**	1.43	▲ 1.88
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	▲ **1.52**	3.14	▲ 1.58

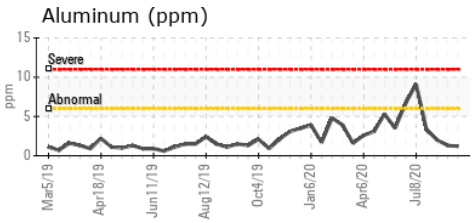
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

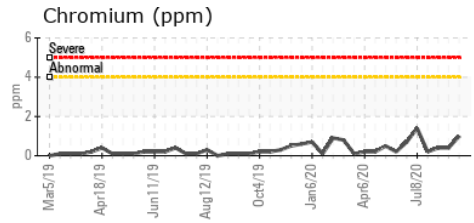
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.7	**14.5**	14.0	14.5

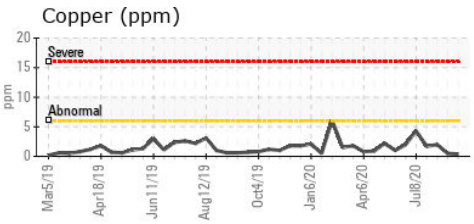
GRAPHS

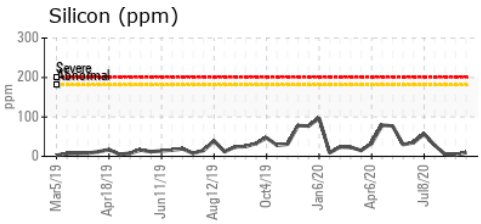


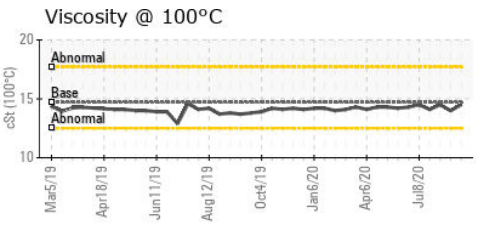


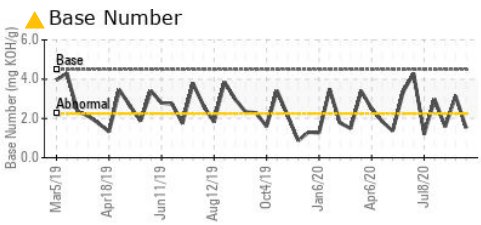












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0788163
Lab Number : 05870450
Unique Number : 10510234
Test Package : MOB 2

Received : 09 Jun 2023
Diagnosed : 14 Jun 2023
Diagnostician : Jonathan Hester

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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US 31058
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Report Id: ENEMAU [WUSCAR] 05870450 (Generated: 12/07/2023 11:39:05) Rev: 1

Submitted By: Daniel Dauzat