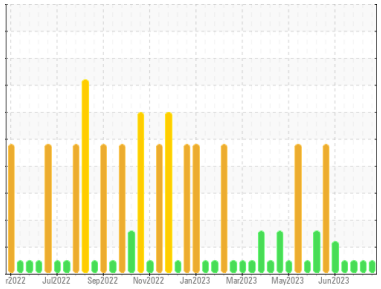
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
Brent Run CAT 1 BRRM01BE
Component
Biogas Engine
Fluid
CHEVRON HDAX 6500 LFG GAS ENGINE OIL (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: 600 hour sample TEO was performed on 7/12/2023 oil was changed day after)

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		**WC0776848**	WC0776843	WC0776806
Sample Date		Client Info		**08 Aug 2023**	01 Aug 2023	25 Jul 2023
Machine Age	hrs	Client Info		**36874**	36706	36540
Oil Age	hrs	Client Info		**565**	397	231
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

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	**2**	2	2
Chromium	ppm	ASTM D5185m	>4	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>2	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m	>5	**0**	0	0
Aluminum	ppm	ASTM D5185m	>6	**3**	2	2
Lead	ppm	ASTM D5185m	>9	**1**	<1	<1
Copper	ppm	ASTM D5185m	>6	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>4	**4**	3	2
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**1**	<1	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	2	2
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**13**	9	11
Calcium	ppm	ASTM D5185m		**2007**	1969	1984
Phosphorus	ppm	ASTM D5185m		**307**	279	283
Zinc	ppm	ASTM D5185m		**362**	356	339
Sulfur	ppm	ASTM D5185m		**3342**	2981	2928

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	**171**	159	117
Sodium	ppm	ASTM D5185m		**2**	0	1
Potassium	ppm	ASTM D5185m	>20	**2**	1	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**6.4**	6.1	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.9**	21.1	19.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**14.2**	13.4	11.1
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	**1.47**	1.17	0.90
Base Number (BN)	mg KOH/g	ASTM D2896	4.5	**4.42**	3.26	3.78

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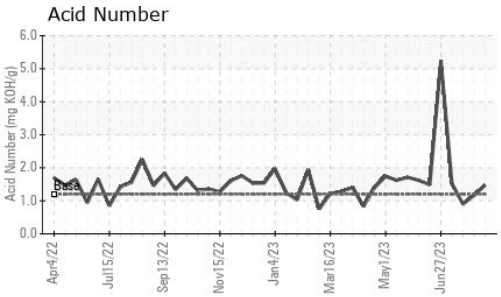
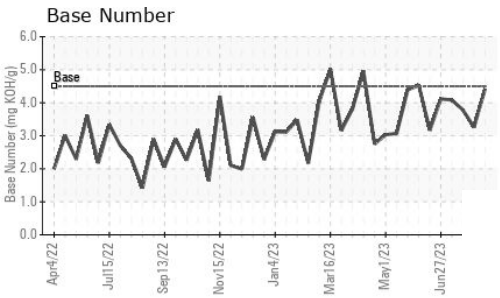
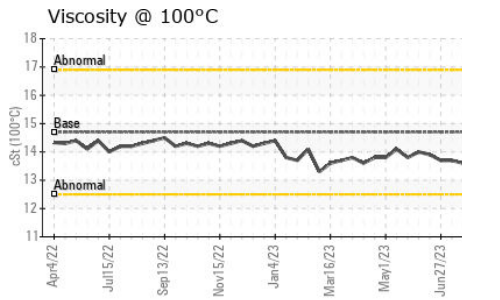


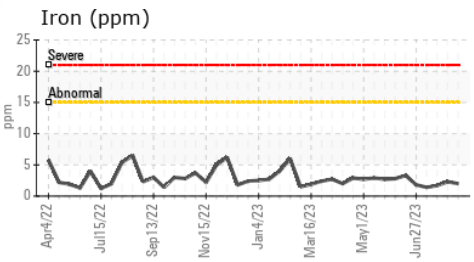


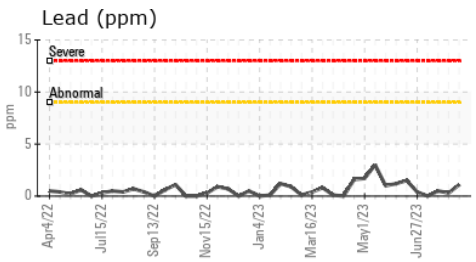


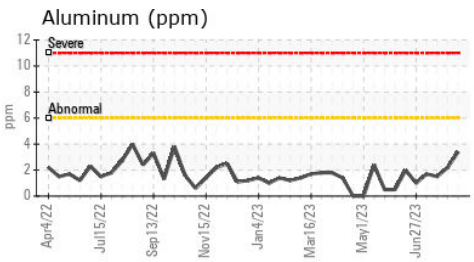
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

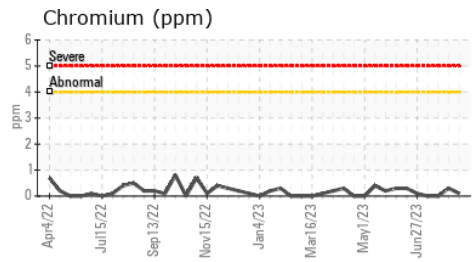
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.7	**13.6**	13.7	13.6

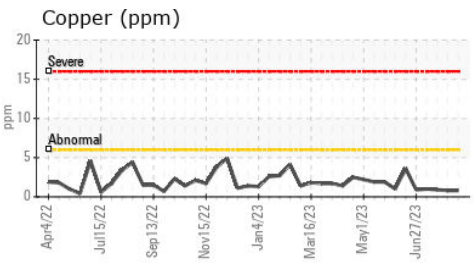
GRAPHS

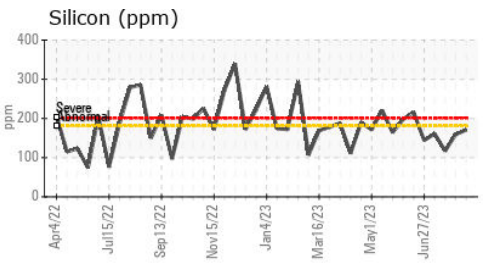


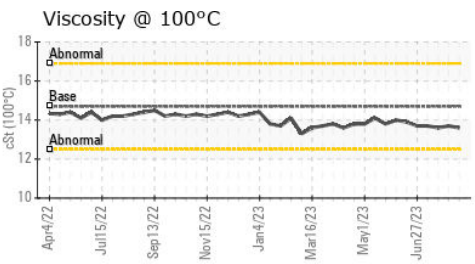


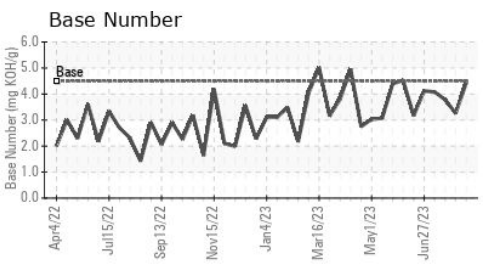












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0776848
Lab Number : 05922383
Unique Number : 10602330
Test Package : MOB 2

Received : 11 Aug 2023
Diagnosed : 14 Aug 2023
Diagnostician : Don Baldridge

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)

EDL NA Recips-Brent Run
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Montrose, MI
US 48457-9141
Contact: Jenna Hiltz
Jenna.Hiltz@edlenergy.com
T:
F:

Report Id: EDLMON [WUSCAR] 05922383 (Generated: 08/14/2023 11:03:09) Rev: 1

Submitted By: DOUG HINE