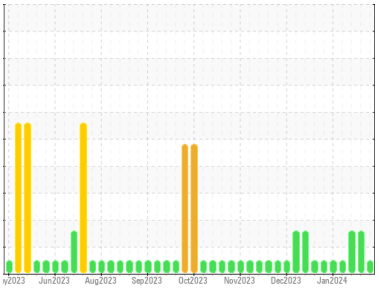
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
SJNM01BE
Component
Biogas Engine
Fluid
CHEVRON HDAX 9500 GAS ENGINE OIL 40 (--- 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		**WC0865845**	WC0865844	WC0865701
Sample Date		Client Info		**22 Feb 2024**	15 Feb 2024	08 Feb 2024
Machine Age	hrs	Client Info		**70531**	70362	70196
Oil Age	hrs	Client Info		**169**	996	830
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.1	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	**<1**	3	2
Chromium	ppm	ASTM D5185m	>4	**0**	<1	0
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	**2**	2	<1
Lead	ppm	ASTM D5185m	>9	**2**	4	3
Copper	ppm	ASTM D5185m	>6	**<1**	1	<1
Tin	ppm	ASTM D5185m	>4	**2**	3	2
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		**4**	3	2
Barium	ppm	ASTM D5185m		**0**	10	0
Molybdenum	ppm	ASTM D5185m		**4**	8	9
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m		**25**	27	28
Calcium	ppm	ASTM D5185m		**1903**	2147	2136
Phosphorus	ppm	ASTM D5185m		**289**	396	325
Zinc	ppm	ASTM D5185m		**362**	399	418
Sulfur	ppm	ASTM D5185m		**1961**	2744	2403

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	**77**	▲ 184	▲ 188
Sodium	ppm	ASTM D5185m		**1**	0	<1
Potassium	ppm	ASTM D5185m	>20	**1**	2	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**6.8**	8.2	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**18.5**	23.6	23.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**13.1**	20.6	20.2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.1	**0.84**	1.74	1.62
Base Number (BN)	mg KOH/g	ASTM D2896	5.4	**4.74**	3.93	5.89

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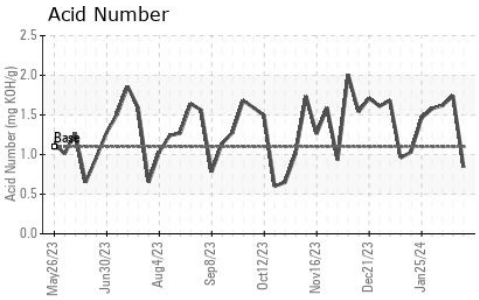
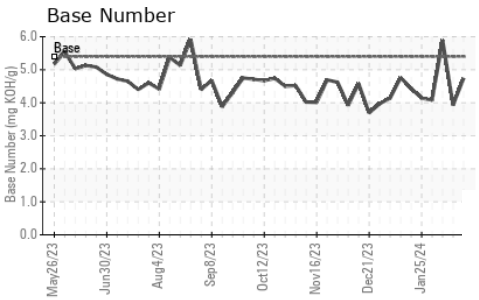
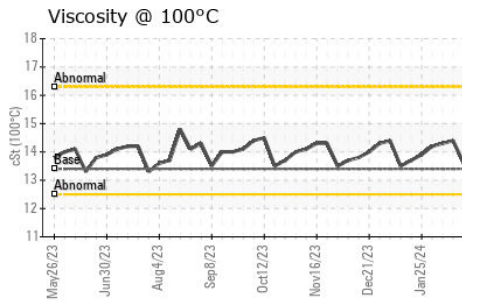


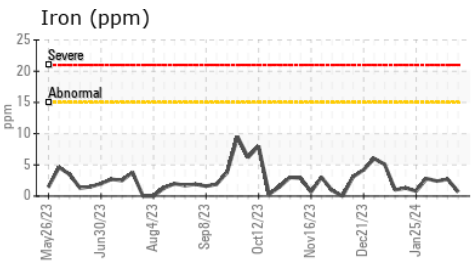


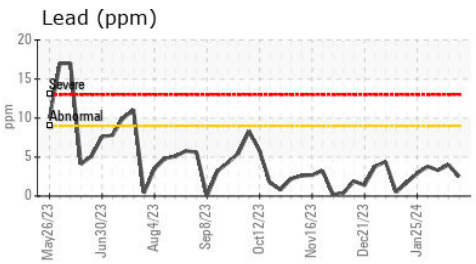


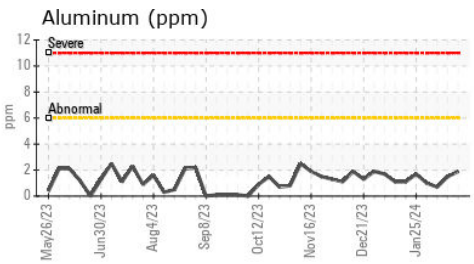
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

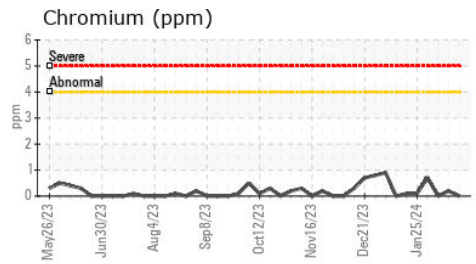
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.4	**13.6**	14.4	14.3

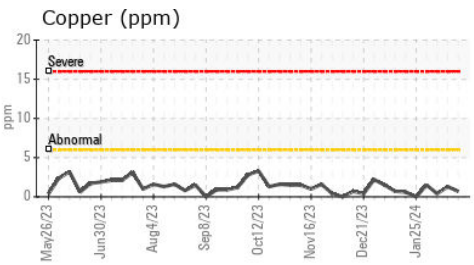
GRAPHS

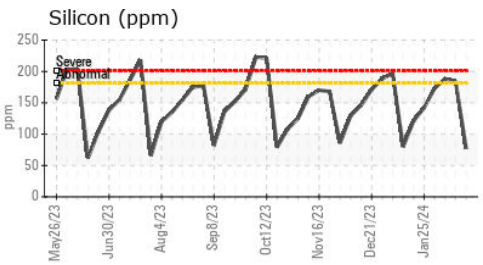


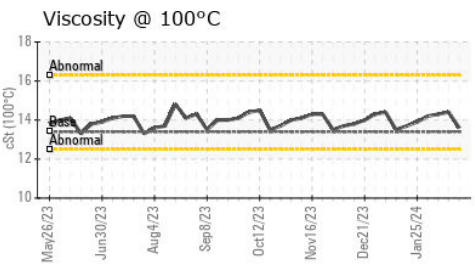


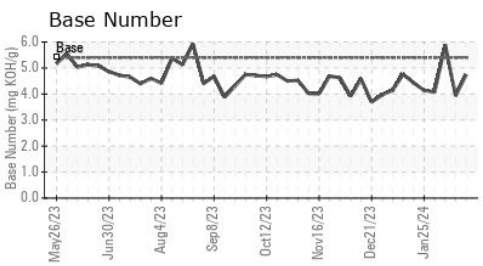












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0865845
Lab Number : 06100286
Unique Number : 10898516
Test Package : MOB 2

Received : 26 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 28 Feb 2024 - Jonathan Hester

Certificate L2367

EDL NA Recips-South Jordan
South Jordan Powerstation, 10473 S. Bacchus Hwy.
South Jordan, UT
US 84095
Contact: Aaron Klein
aaron.klein@edlenergy.com
T:
F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)