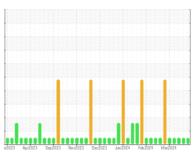


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







# Machine Id MTNM01BE Component Biogas Engine Fluid SHELL MYSELLA S5 N 40 (160 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.

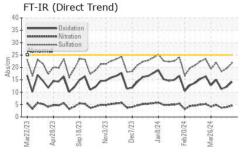
## **Fluid Condition**

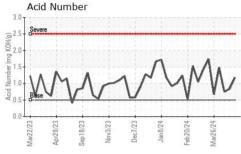
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

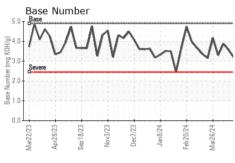
•						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age	hrs hrs	Client Info Client Info Client Info Client Info		WC0775224 23 Apr 2024 42348 277	WC0775264 15 Apr 2024 42159 88	WC0775219 10 Apr 2024 42071 75
Oil Changed Sample Status		Client Info		N/A NORMAL	Changed NORMAL	N/A NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>4.0	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>14 >3	3 0 0 <1	<1 0 0 0	1 0 0 0
Aluminum Lead Copper Tin	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>8	3 0 1 <1	2 <1 <1 <1	2 0 <1 0
Vanadium Cadmium ADDITIVES	ppm	ASTM D5185m ASTM D5185m	limit/bass	0	0 0	<1 0
Boron Barium	ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 0 0	history2 0 0
Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		2 <1 18	2 0 18	2 0 11
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m	300	1701 342 413	1675 342 404	1427 279 317
Sulfur	ppm	ASTM D5185m		3819	4021	2960
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method  ASTM D5185m  ASTM D5185m  ASTM D5185m	>180 >20 >20	137 3 0	history1 64 3 1	history2 47 2 0
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>16	0.1 4.6 21.8	0.1 4.0 19.6	0.1 3.7 18.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation Acid Number (AN) Base Number (BN)	Abs/.1mm mg KOH/g mg KOH/g	*ASTM D7414 ASTM D8045 ASTM D2896	0.5 4.9	14.2 1.18 3.18	12.2 0.84 3.57	11.3 0.75 3.88

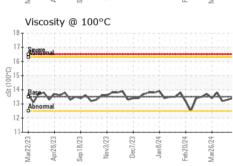


# **OIL ANALYSIS REPORT**







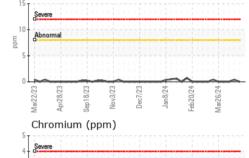


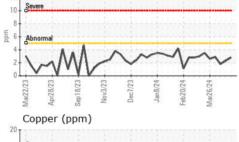
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

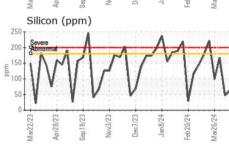
FLUID PROPER	HES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	13.4	13.3	13.2

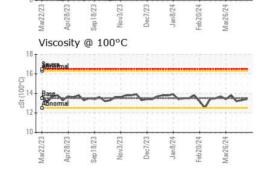
Lead (ppm)

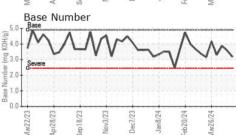
Seve	ere						
Abn	ormal				10,00	Julius	11111
	A						
1		1			$\sim$	7.	1
V	V	M	^	~	$\sim$	V	4
Mar22/23	Apr.28/23	Sep18/23	Nov3/23	Dec7/23	Jan8/24	Feb20/24	War26/24















Certificate 12367

Laboratory Sample No.

: WC0775224 Lab Number : 06161691 Unique Number : 10997114 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 26 Apr 2024 : 29 Apr 2024 Diagnosed : 29 Apr 2024 - Sean Felton

**EDL NA Recips-Morgantown** Morgantown Powerstation, 950 Shiloh Morgantown, PA

US 19543 Contact: ARON GUNN

aron.gunn@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)

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