

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id MTNM01BE Component

Biogas Engine

SHELL SHELL MYSELLA S3 N 40 (--- GAL)





LA 33 N 40 ( GAL)						
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info Client Info		WC0770241 18 Apr 2023	WC0770242 10 Apr 2023	WC0770244 07 Apr 2023
Machine Age	hrs	Client Info		37988	37862	37826
Oil Age	hrs	Client Info		110	564	528
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	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	<1	5	7
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	2	<1
Lead	ppm	ASTM D5185m	>9	0	0	<1
Copper	ppm	ASTM D5185m	>6	0	<1	1
Tin	ppm	ASTM D5185m	>4	<1	2	4
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		3	4	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	3	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		21	21	17
Calcium	ppm	ASTM D5185m		1467	1609	1732
Phosphorus	ppm	ASTM D5185m		322	355	350
Zinc	ppm	ASTM D5185m		390	422	449
Sulfur	ppm	ASTM D5185m		3279	3306	3269
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	75	144	<b>1</b> 82
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1

4.1

17.3

11.8

0.62

4.23

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.

Nitration

Sulfation

Oxidation

Abs/cm \*ASTM D7624 >20

Abs/.1mm \*ASTM D7415 >30

Abs/.1mm \*ASTM D7414 >25

Acid Number (AN) mg KOH/g ASTM D8045

Base Number (BN) mg KOH/g ASTM D2896 5

5.7

23.1

16.9

1.28

4.09

5.2

21.5

14.6

0.75

4.61



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Test Package : MOB 2 Certificate L2367 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-Morgantown** Morgantown Powerstation, 950 Shiloh Morgantown, PA US 19543 Contact: ARON GUNN aron.gunn@edlenergy.com T: F:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.7

Dec2/22

ec2/22

an 23/7

lar22/2:

Aar22/23

an 23/23

ep 13/22

Sep 13/22

Sep 13/22 Dec2/22 an 73/73

nr26/77

Per 2/17:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.8

nr26/77