

OIL ANALYSIS REPORT

Sample Rating Trend

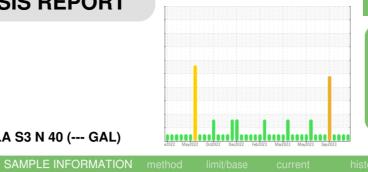
NORMAL



Machine Id MTNM01BE Component

Biogas Engine

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





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.

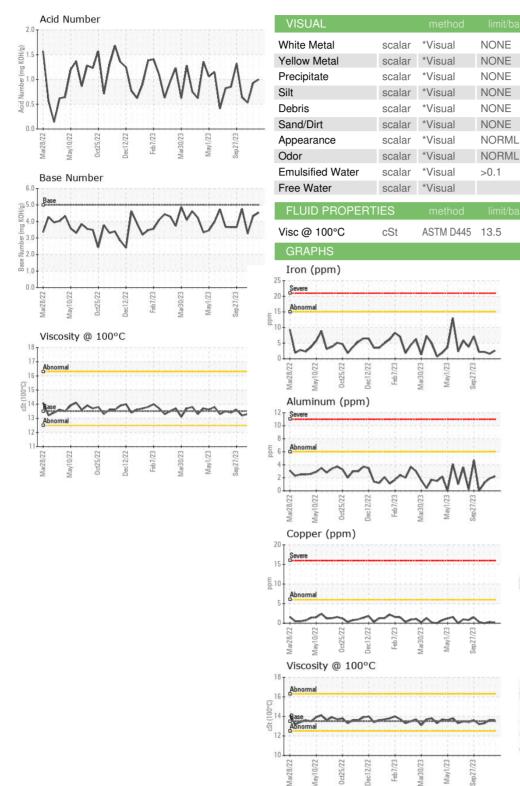
Fluid Condition

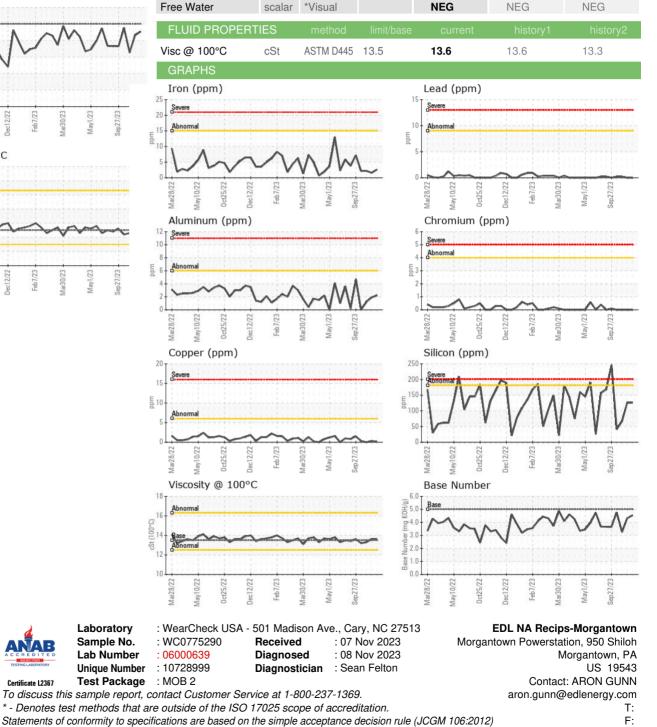
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION	hrs hrs	Client Info Client Info Client Info Client Info Client Info	limit/base	WC0775290 03 Nov 2023 39489 377 Changed NORMAL	WC0775287 27 Oct 2023 39380 263 Changed NORMAL history1	WC0775292 18 Oct 2023 39215 98 Changed NORMAL history2
Fuel		WC Method		<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	3	2	2
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	<1	<1	0
Tin	ppm	ASTM D5185m	>4	2	2	1
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		2	<1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	2	3
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		14	16	11
Calcium	ppm	ASTM D5185m		1628	1615	1439
Phosphorus	ppm	ASTM D5185m		322	306	298
Zinc	ppm	ASTM D5185m		422	427	367
Sulfur	ppm	ASTM D5185m		3192	3156	2850
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>181	126	126	67
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.8	4.9	4.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.3	18.8
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.5	12.1
Acid Number (AN)	mg KOH/g	ASTM D8045		1.00	0.93	0.53
Base Number (BN)	mg KOH/g	ASTM D2896	5	4.54	4.32	3.26
()	0 - 0					



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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

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NONE

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NONE

NONE

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NORML

NORML

NEG

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number

Test Package

: WC0775290

: 06000639

: 10728999

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: MOB 2

Received

Diagnosed

Diagnostician