

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**VISUAL METAL** 

#### Area METRO Machine Id METRO 20005 Component

Transmission (Manual) Fluid NOT GIVEN (--- GAL)

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

## 🔺 Wear

The aluminum level has decreased, but is still abnormal. Moderate concentration of visible metal present.

#### Contamination

There is no indication of any contamination in the fluid.

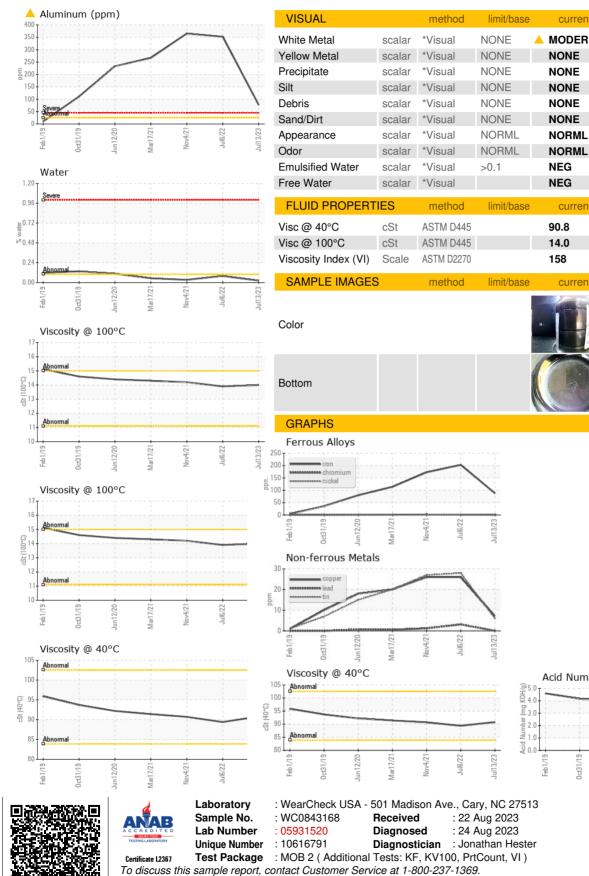
### Fluid Condition

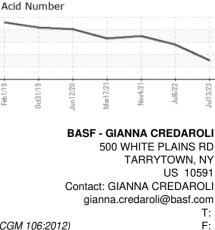
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843168	WC0728445	WC0642314
Sample Date		Client Info		13 Jul 2023	06 Jul 2022	04 Nov 2021
Machine Age	mls	Client Info		444261	338372	270437
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	88	<u> </u>	173
Chromium	ppm	ASTM D5185m	>5	<1	1	2
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>7	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	• 352	9365
Lead	ppm	ASTM D5185m	>45	0	3	1
Copper	ppm	ASTM D5185m	>225	7	26	26
Tin	ppm	ASTM D5185m	>10	6	<u> </u>	27
Antimony	ppm	ASTM D5185m				<1
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		10	236	265
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		6	4	4
Magnesium	ppm	ASTM D5185m		0	0	5
Calcium	ppm	ASTM D5185m		59	47	52
Phosphorus	ppm	ASTM D5185m		829	1104	1095
Zinc	ppm	ASTM D5185m		7	12	22
Sulfur	ppm	ASTM D5185m		14541	1357	1233
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	20	28	27
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	12	6	8
Water	%	ASTM D6304	>0.1	0.023	0.080	0.033
ppm Water	ppm	ASTM D6304	>1000	236.6	803.0	339.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.53	2.79	3.483



# **OIL ANALYSIS REPORT**





history1

NONE

NONE

NONE

NONE

MODER

NONE

NORML

NORML

NEG

NEG

89.4

13.9

159

history

history1

current

curren

current

history2

VLITE

NONE

NONE

NONE

VLITE

NONE

NORML

NORML

history

history2

no image

no image

NEG

NEG

90.7

14.2

161

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.