

## **OIL ANALYSIS REPORT**

Sample Rating Trend

**WEAR** 

### Area MET EXPRESS MET EXPRESS 23004 Component

Transmission (Manual) Filuid GEAR OIL SAE 80 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

#### 🔺 Wear

The aluminum level is abnormal. All other component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the fluid.

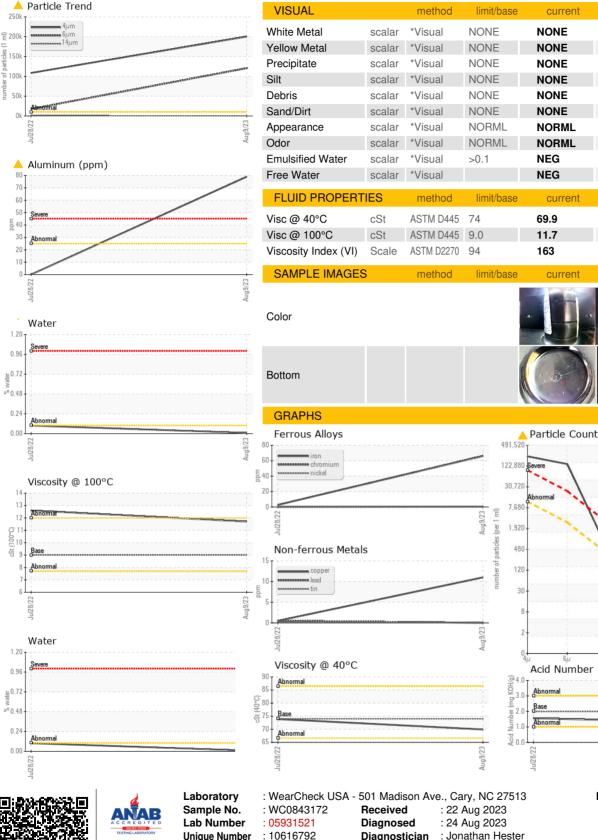
#### Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843172	WC0728397	
Sample Date		Client Info		09 Aug 2023	28 Jul 2022	
Machine Age	mls	Client Info		98161	8	
Oil Age	mls	Client Info		0	0	
Oil Changed	1113	Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
÷				-	-	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	66	3	
Chromium	ppm	ASTM D5185m	>5	<1	0	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>7	0	<1	
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	0	
Lead	ppm	ASTM D5185m	>45	0	<1	
Copper	ppm	ASTM D5185m	>225	11	<1	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	0	2	
Barium	ppm	ASTM D5185m	200	0	0	
		ASTM D5185m	12	0	<1	
Molybdenum	ppm		12	3	<1	
Manganese	ppm	ASTM D5185m	12	-	0	
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m	150	69	61	
Phosphorus	ppm	ASTM D5185m	1650	919	854	
Zinc	ppm	ASTM D5185m	125	3	0	
Sulfur	ppm	ASTM D5185m	22500	13006	10940	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	18	2	
Sodium	ppm	ASTM D5185m		2	<1	
Potassium	ppm	ASTM D5185m	>20	2	<1	
Water	%	ASTM D6304	>0.1	0.009	0.098	
opm Water	ppm	ASTM D6304	>1000	95.4	987.8	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>A</b> 200245	▲ 108552	
					4	
Particles >6µm		ASTM D7647	>2500	<u> </u>	🔺 17700	
		ASTM D7647 ASTM D7647	>2500 >320	▲ 120586 ▲ 453	▲ 17700 ▲ 897	
Particles >14µm		ASTM D7647	>320	<b>4</b> 53	<b>8</b> 97	
Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647	>320 >80	▲ 453 75	▲ 897 ▲ 225	
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647	>320 >80 >20	▲ 453 75 3	<ul> <li>▲ 897</li> <li>▲ 225</li> <li>7</li> </ul>	
Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>320 >80 >20 >4	<ul> <li>▲ 453</li> <li>75</li> <li>3</li> <li>0</li> </ul>	<ul> <li>▲ 897</li> <li>▲ 225</li> <li>7</li> <li>1</li> </ul>	
Particles >14µm Particles >21µm Particles >38µm Particles >71µm Dil Cleanliness		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>320 >80 >20 >4 >20/18/15	<ul> <li>▲ 453</li> <li>75</li> <li>3</li> <li>0</li> <li>▲ 25/24/16</li> </ul>	<ul> <li>▲ 897</li> <li>▲ 225</li> <li>7</li> <li>1</li> <li>▲ 24/21/17</li> </ul>	
Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ATION mg KOH/g	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>320 >80 >20 >4	<ul> <li>▲ 453</li> <li>75</li> <li>3</li> <li>0</li> </ul>	<ul> <li>▲ 897</li> <li>▲ 225</li> <li>7</li> <li>1</li> </ul>	



# **OIL ANALYSIS REPORT**



: MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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38

history1

LIGHT

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

history

historv1

NEG

NEG

73.9

12.6

170

history2

history

history2

no image

no image

20 23

1400

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Contact/Location: GIANNA CREDAROLI - BASTARHD