

# **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

# Area COWAN Machine Id COWAN 224536

Component Rear Differential Fluid NOT GIVEN (--- GAL)

# DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 5W40 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

# Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

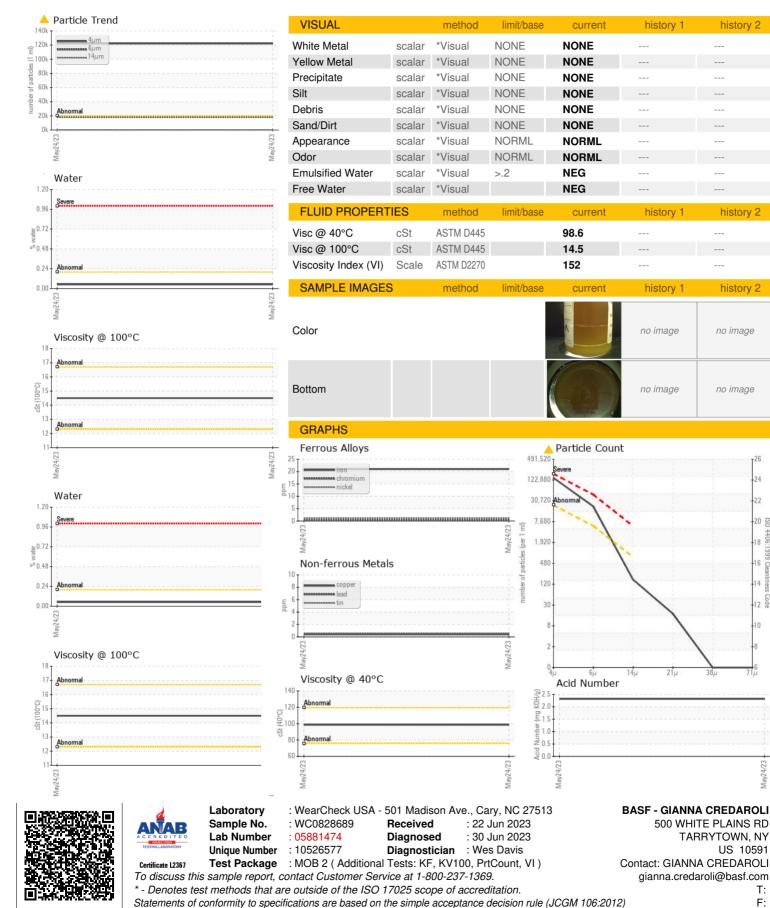
#### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0828689		
Sample Date		Client Info		24 May 2023		
Machine Age	mls	Client Info		100		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>500	21		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m	210	0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>100	<1		
Tin	ppm	ASTM D5185m	>100	<1		
Vanadium	ppm	ASTM D5185m	210	0		
Cadmium	ppm	ASTM D5185m		0		
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ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		278		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		5		
Phosphorus	ppm	ASTM D5185m		1512		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		32919		
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>75	23		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	3		
Water	%	ASTM D6304	>.2	0.050		
ppm Water	ppm	ASTM D6304	>2000	500.9		
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>20000	<b>A</b> 122136		
Particles >6µm		ASTM D7647	>5000	<u> </u>		
Particles >14µm		ASTM D7647	>640	144		
Particles >21µm		ASTM D7647	>160	15		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.32		



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21µ

history 1

history

history 1

no image

no image

history 2

history

history 2

no image

no image

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18

16

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