

OIL ANALYSIS REPORT

COWAN **COWAN 224535**

Component

Rear Differential

NOT GIVEN (--- GAL)

Sample Rating Trend ISO

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

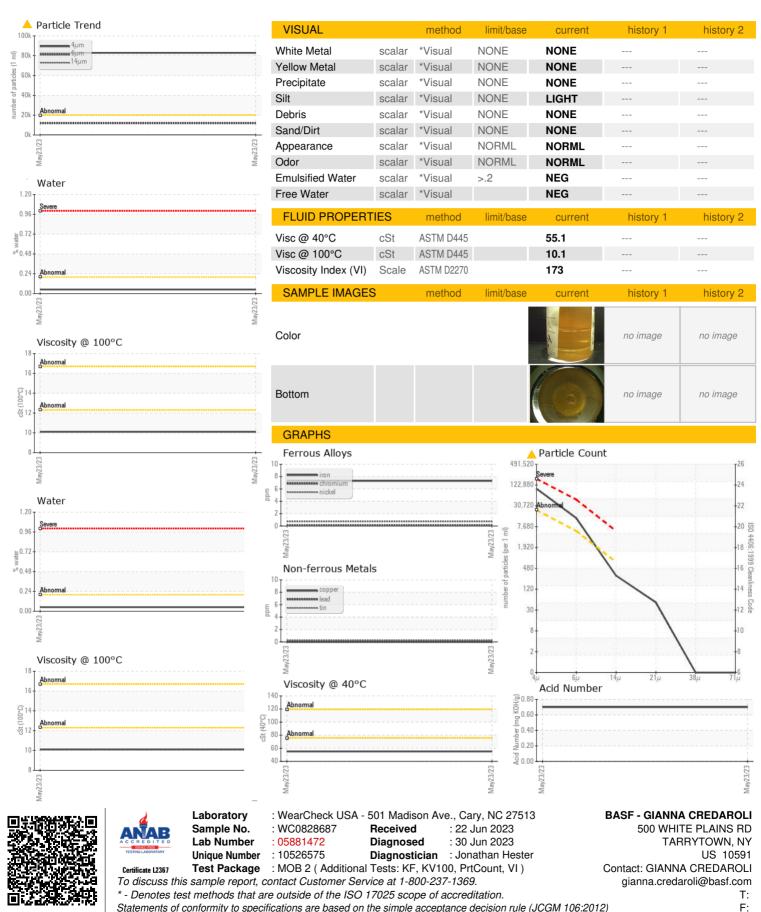
Fluid Condition

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

				May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0828687		
Sample Date		Client Info		23 May 2023		
Machine Age	mls	Client Info		281		
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	7		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	0		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		107		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		191		
Calcium	ppm	ASTM D5185m		1		
Phosphorus	ppm	ASTM D5185m		1803		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		32208		
CONTAMINANTS	}	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>75	6		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>.2	0.049		
ppm Water	ppm	ASTM D6304	>2000	495.2		
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>20000	▲ 82863		
Particles >6µm		ASTM D7647	>5000	<u> </u>		
Particles >14µm		ASTM D7647	>640	260		
Particles >21µm		ASTM D7647	>160	44		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/21/15		
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.70		



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