

OIL ANALYSIS REPORT

COWAN **COWAN 224534**

Component

Front 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.

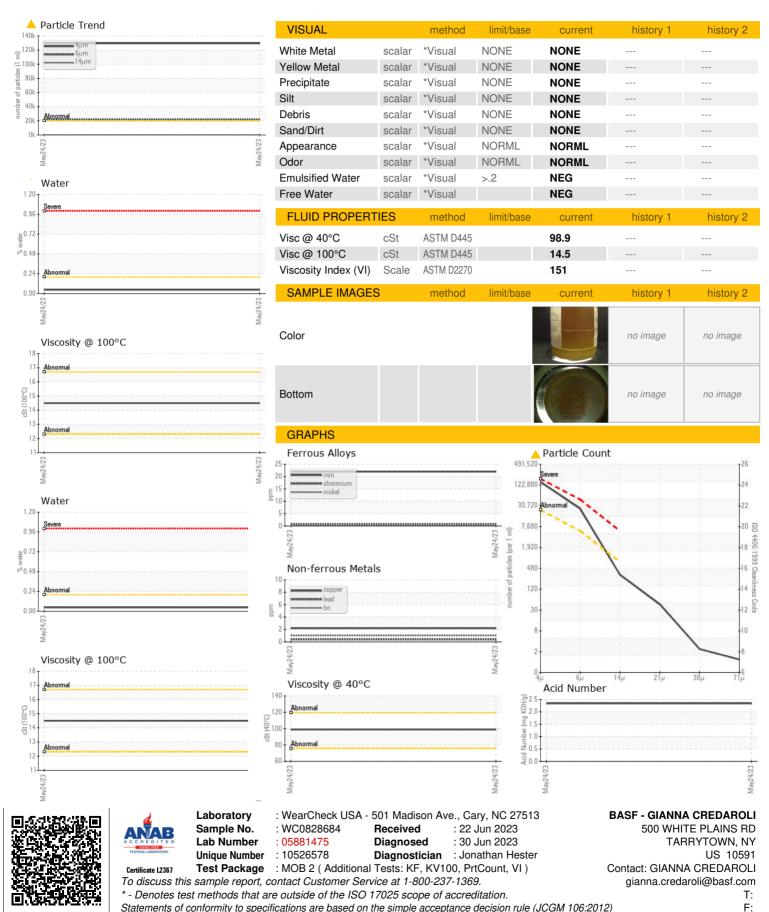
Fluid Condition

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		WC0828684		
Sample Date		Client Info		24 May 2023		
Machine Age	mls	Client Info		102		
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	22		
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	<1		
Copper	ppm	ASTM D5185m	>100	2		
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		277		
Barium	ppm	ASTM D5185m		3		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		4		
Phosphorus	ppm	ASTM D5185m		1525		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		32687		
CONTAMINANTS		method	limit/base	current	history 1	history 2
					Thistory I	Thistory 2
Silicon	ppm	ASTM D5185m	>/5	22		
Sodium	ppm	ASTM D5185m	0.0	7		
Potassium	ppm	ASTM D5185m		3		
Water	%	ASTM D6304		0.046		
ppm Water	ppm	ASTM D6304		468.0		
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>20000	129456		
Particles >6µm		ASTM D7647	>5000	<u>^</u> 21838		
Particles >14µm		ASTM D7647	>640	274		
Particles >21µm		ASTM D7647	>160	39		
Particles >38µm		ASTM D7647	>40	2		
Particles >71µm		ASTM D7647	>10	1		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>		
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.34		



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