

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area COWAN Machine Id COWAN 224536

Component Front 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.

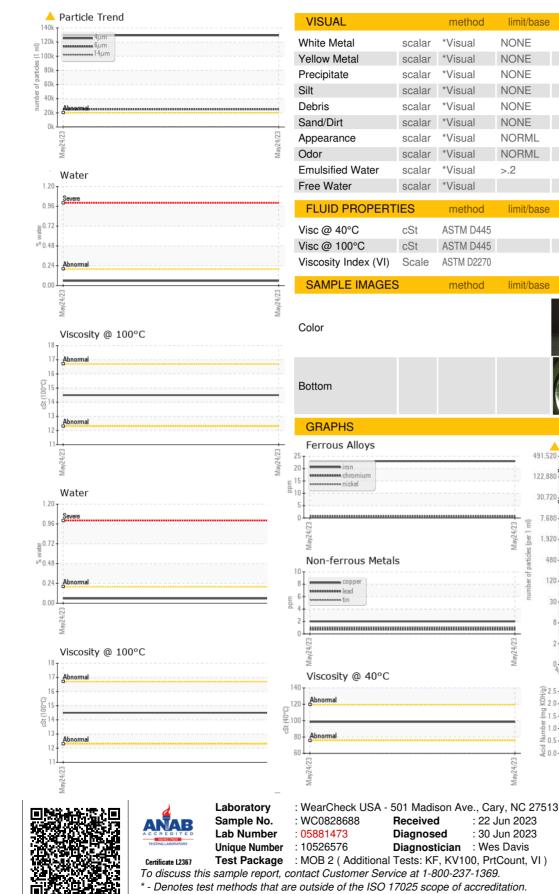
Fluid Condition

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	ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0828688		
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	23		
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		4		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		5		
Phosphorus	ppm	ASTM D5185m		1534		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		32775		
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>75	15		
Sodium	ppm	ASTM D5185m	210	8		
Potassium	ppm	ASTM D5185m	>20	3		
Water	%	ASTM D6304		0.057		
ppm Water	ppm	ASTM D6304	>2000	575.6		
FLUID CLEANLIN		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>20000	▲ 129324		
Particles >6µm		ASTM D7647		<u> </u>		
Particles >14µm		ASTM D7647	>640	285		
Particles >21µm		ASTM D7647		37		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/22/15		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.29		
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

history 1

history

history 1

no image

no image

21µ

38

BASF - GIANNA CREDAROLI

Contact: GIANNA CREDAROLI

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500 WHITE PLAINS RD

TARRYTOWN, NY

current

NONE

NONE

NONE

LIGHT

NONE

NONE

NORML

NORML

curren

current

Particle Count

Acid Number

491.52

122.88

30.72

7 68

1.920

480

120

31

(B/HOX 2.0

Ē 1.5 0.1 Mumber

0.5 0.0 Acid NEG

NEG

98.5

14.5

152

history 2

history

history 2

no image

no image

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18

16

1406

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US 10591

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