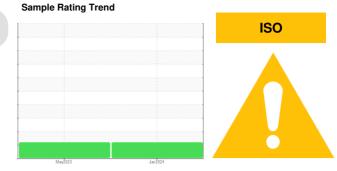


OIL ANALYSIS REPORT

Area COWAN **COWAN 224539**

Rear Differential

{not provided} (--- GAL)



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.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934464	WC0828693	
Sample Date		Client Info		05 Jan 2024	23 May 2023	
Machine Age	mls	Client Info		67161	2036	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	138	18	
Chromium	ppm	ASTM D5185m	>10	1	<1	
Nickel	ppm	ASTM D5185m	>10	5	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	1	0	
Lead	ppm	ASTM D5185m	>25	0	<1	
Copper	ppm	ASTM D5185m	>100	<1	0	
Tin	ppm		>10	1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	le le	method	limit/base	current	history1	history2
Boron	12 12 122	ASTM D5185m	III III Dasc	122	110	HISTOTYZ
Barium	ppm	ASTM D5185m		2	0	
	ppm	ASTM D5185m		0		
Molybdenum	ppm			9	0	
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		161	187	
	ppm			5	<1	
Calcium	ppm	ASTM D5185m		-		
Phosphorus	ppm	ASTM D5185m		1744	1811	
Zinc	ppm	ASTM D5185m		4	0	
Sulfur	ppm	ASTM D5185m		29964	32553	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	18	5	
Sodium	ppm	ASTM D5185m		3	1	
Potassium	ppm	ASTM D5185m	>20	2	3	
Water	%	ASTM D6304	>.2	0.030	0.031	
ppm Water	ppm	ASTM D6304	>2000	302	317.5	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	151090	<u>▲</u> 142626	
Particles >6µm		ASTM D7647	>5000	8062	▲ 37821	
Particles >14μm		ASTM D7647	>640	81	434	
Particles >21μm		ASTM D7647	>160	22	70	
Particles >38µm		ASTM D7647	>40	3	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/20/14	<u>4</u> 24/22/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A aid Number (AN)	ma 1/011/a	ACTM DODAE		0.67	0.75	

Acid Number (AN)

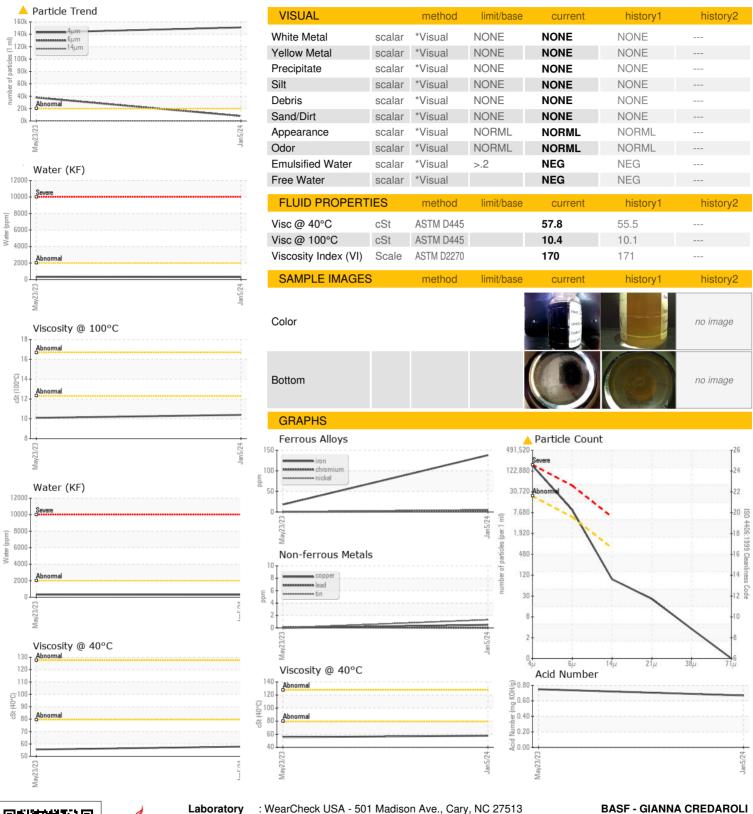
mg KOH/g ASTM D8045

0.75

0.67



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0934464 Lab Number : 06179379

Unique Number : 11030705

Received : 14 May 2024 **Tested** : 16 May 2024 Diagnosed : 16 May 2024 - Angela Borella

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

BASF - GIANNA CREDAROLI

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