

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

BMW 24858-03

Component Gasoline Engine Fluid NOT GIVEN (--- QTS)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time.

🔺 Wear

Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

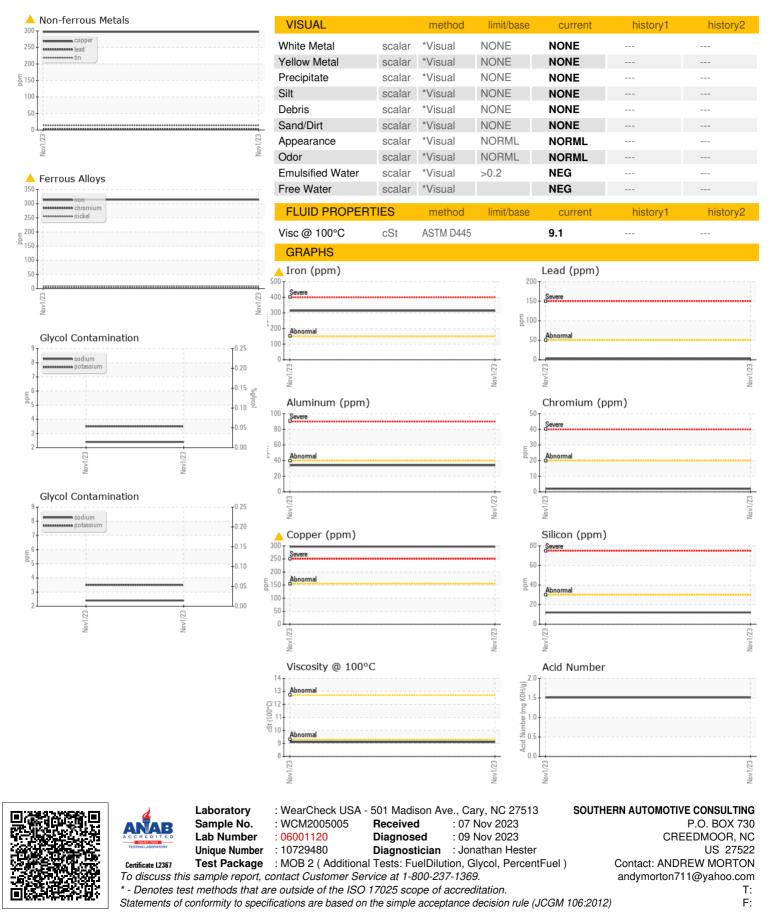
Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCM2005005		
Sample Date		Client Info		01 Nov 2023		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	A 314		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>5	9		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	34		
Lead	ppm	ASTM D5185m	>50	3		
Copper	ppm	ASTM D5185m	>155	<u> </u>		
Tin	ppm	ASTM D5185m	>10	4 14		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		32		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		61		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m		354		
Calcium	ppm	ASTM D5185m		1202		
Phosphorus	ppm	ASTM D5185m		600		
Zinc	ppm	ASTM D5185m		735		
Sulfur	ppm	ASTM D5185m		1926		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	12		
Sodium	ppm	ASTM D5185m	>400	2		
Potassium	ppm	ASTM D5185m	>20	4		
Fuel	%	ASTM D3524	>4.0	<1.0		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	11.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.7		
	mg KOH/g	ASTM D8045		1.51		
	99			-		



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Contact/Location: ANDREW MORTON - SOUCRE