

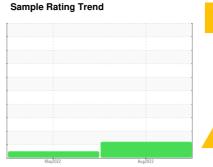
OIL ANALYSIS REPORT

METRO **METRO 23011**

Component

Rear Differential

NOT GIVEN (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory elemental data.

Wear

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.

			May2022	Aug 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843200	WC0692960	
Sample Date		Client Info		20 Aug 2023	17 May 2022	
Machine Age	mls	Client Info		146196	2327	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	314	20	
Chromium	ppm	ASTM D5185m	>10	2	0	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	4	
Aluminum	ppm	ASTM D5185m	>25	4	<1	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>100	1	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		330	341	
Barium	ppm	ASTM D5185m		27	0	
Molybdenum		ASTM D5185m		<1	<1	
-	ppm	ASTM D5185m		4	1	
Manganese Magnesium	ppm	ASTM D5185m		12	<1	
Calcium	ppm	ASTM D5185m		12	0	
	ppm	ASTM D5185m		1626	1570	
Phosphorus	ppm	ASTM D5165III		32	0	
Zinc	ppm			-	24603	
Sulfur	ppm	ASTM D5185m		25056		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	30	1	
Sodium	ppm	ASTM D5185m		4	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>.2	0.040	0.051	
ppm Water	ppm	ASTM D6304	>2000	408.0	514.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>		
Particles >6µm		ASTM D7647	>5000	<u>^</u> 7801		
Particles >14µm		ASTM D7647	>640	62		
Particles >21µm		ASTM D7647	>160	13		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/20/13		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A aid Number (ANI)	ma 1/011/a	ACTM DODAE		0.55	0.06	

Acid Number (AN)

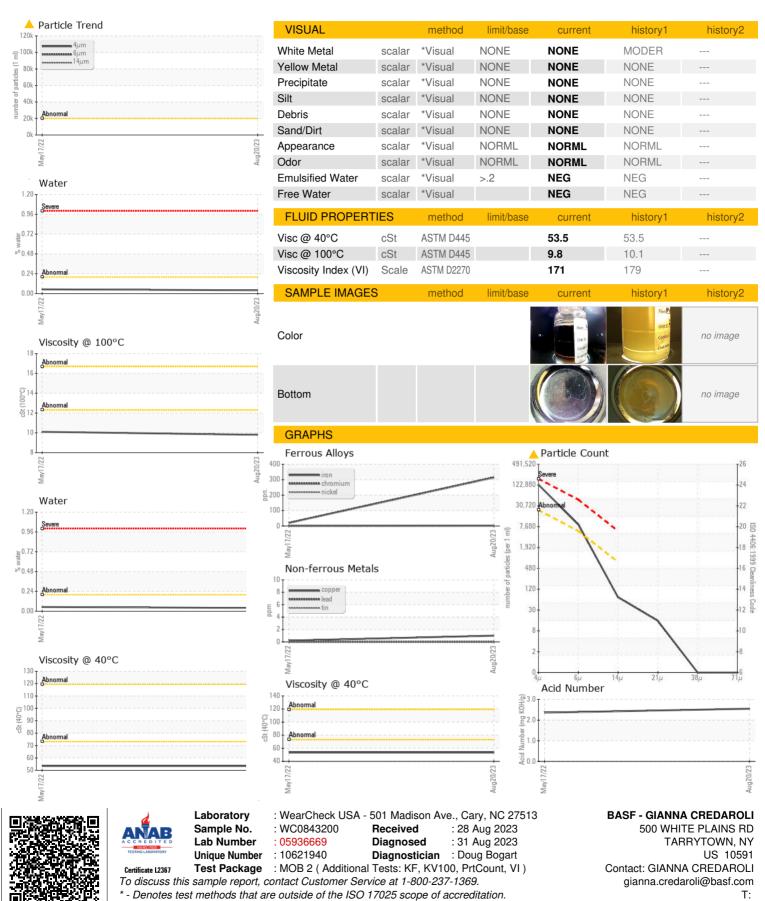
mg KOH/g ASTM D8045

2.36

2.55



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

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