

## **OIL ANALYSIS REPORT**

# Sample Rating Trend **DEGRADATION**

## METRO **METRO 25012**

**Rear Differential** 

{not provided} (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

The AN level is above the recommended limit.

		<u>-</u>		Feb2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934478		
Sample Date		Client Info		29 Feb 2024		
Machine Age	mls	Client Info		5		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
					HISTORY	HISTOTYZ
Iron	ppm	ASTM D5185m	>500	8		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	0		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		276		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		5		
Calcium	ppm	ASTM D5185m		2		
Phosphorus	ppm	ASTM D5185m		1551		
Zinc	ppm	ASTM D5185m		2		
Sulfur		ASTM D5185m		29406		
	ppm			29400		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	2		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>.2	0.045		
ppm Water	ppm	ASTM D6304	>2000	453		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>39755</b>		
Particles >6µm		ASTM D7647	>5000	3938		
Particles >14µm		ASTM D7647	>640	133		
Particles >21µm		ASTM D7647	>160	32		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	1		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	22/19/14		
	TION	. ,			histomet	histomo
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

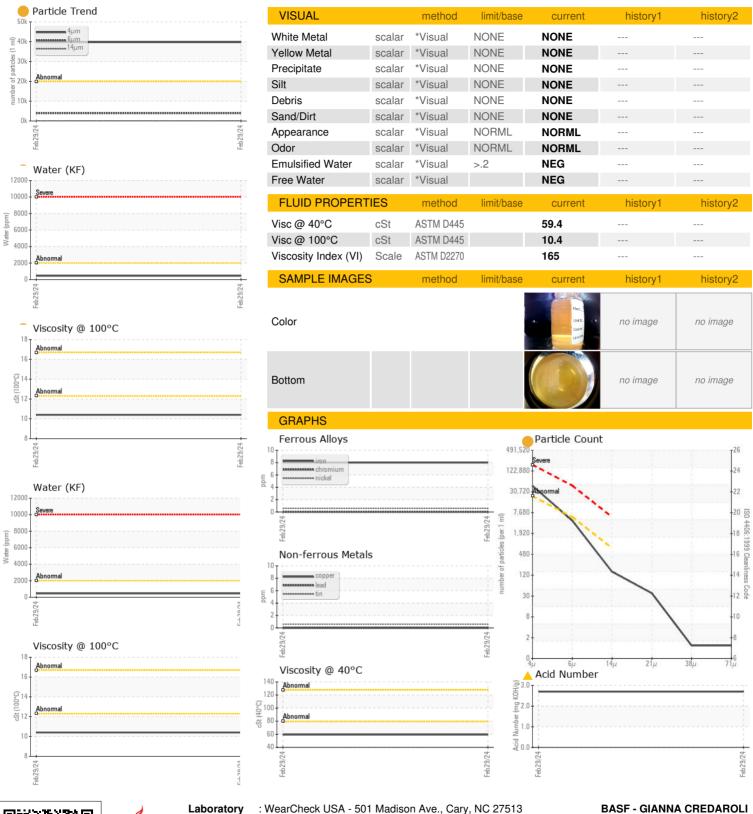
Acid Number (AN)

mg KOH/g ASTM D8045

**2.70** 



### **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No.

: WC0934478 Lab Number : 06179370 Unique Number : 11030696

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)

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