

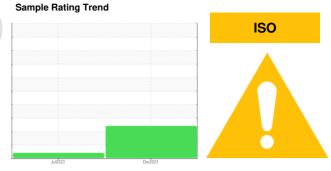
OIL ANALYSIS REPORT

TSI Machine Id 12850

Rear Differential

Fluid

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris 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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934504	WC0771179	
Sample Date		Client Info		14 Dec 2023	19 Jul 2023	
Machine Age	mls	Client Info		128593	39672	
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	109	74	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>25	2	0	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m	>100	2	<1	
Tin	ppm		>10	<1	<1	
Vanadium	ppm	ASTM D5185m	-	<1	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES	PP	method	limit/base	current	history1	history2
			IIIIIIIIIIIIII			HISTOTYZ
Boron	ppm	ASTM D5185m		246	247	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		6	7	
Magnesium	ppm	ASTM D5185m		2	2	
Calcium	ppm	ASTM D5185m		5	2	
Phosphorus	ppm	ASTM D5185m		1708	1500	
Zinc	ppm	ASTM D5185m		6	4	
Sulfur	ppm	ASTM D5185m		28433	25056	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	17	8	
Sodium	ppm	ASTM D5185m		3	4	
Potassium	ppm	ASTM D5185m	>20	2	3	
Water	%	ASTM D6304	>.2	0.046	0.041	
ppm Water	ppm	ASTM D6304	>2000	467	411.7	
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>		
Particles >6µm		ASTM D7647	>5000	62908		
Particles >14μm		ASTM D7647	>640	<u>2591</u>		
Particles >21µm		ASTM D7647	>160	402		
Particles >38µm		ASTM D7647	>40	6		
Particles >71µm		ASTM D7647	>10	1		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/23/19		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma VOI I/a	ACTM DODAE		0.16	0.00	

Acid Number (AN)

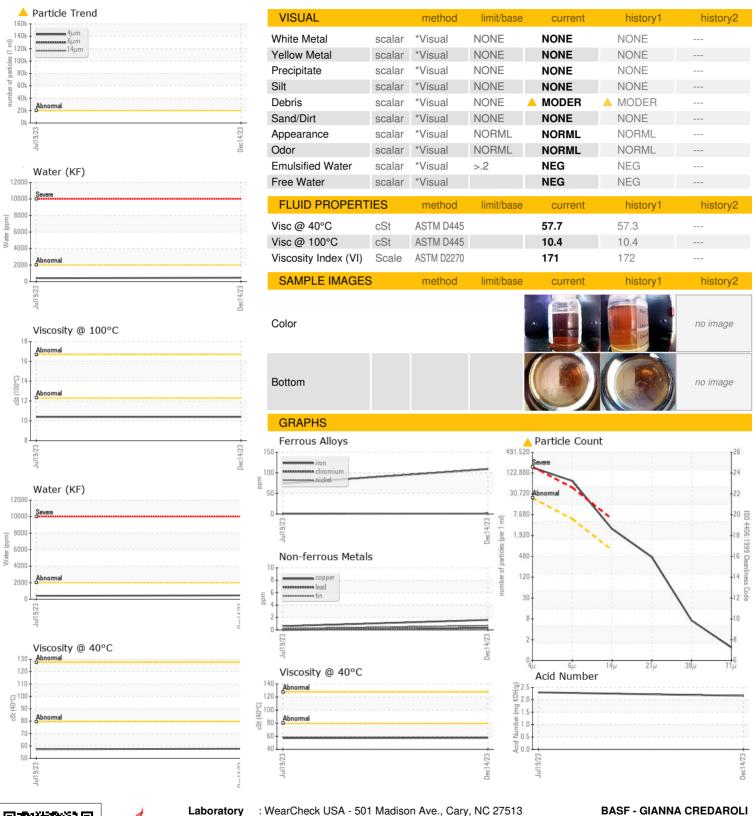
mg KOH/g ASTM D8045

2.30

2.16



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. Lab Number

: WC0934504 : 06180645 Unique Number : 11031971

Received : 15 May 2024 **Tested** Diagnosed

: 17 May 2024 : 18 May 2024 - Jonathan Hester

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. **BASF - GIANNA CREDAROLI**

500 WHITE PLAINS RD TARRYTOWN, NY US 10591

Contact: GIANNA CREDAROLI gianna.credaroli@basf.com T:

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

F: