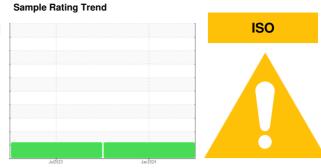


# **OIL ANALYSIS REPORT**

Area **TSI**Machine Id 12851

**Front 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.

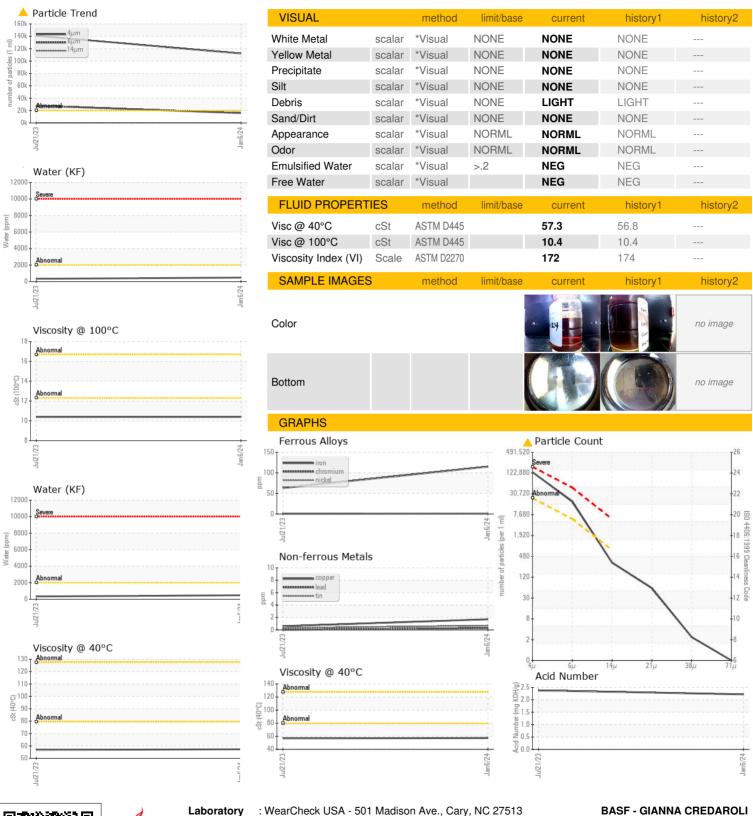
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Jul2023	Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934505	WC0828788	
Sample Date		Client Info		06 Jan 2024	21 Jul 2023	
Machine Age	mls	Client Info		129728	42709	
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	115	63	
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	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		233	228	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		4	4	
Magnesium	ppm	ASTM D5185m		6	2	
Calcium	ppm	ASTM D5185m		3	2	
Phosphorus	ppm	ASTM D5185m		1741	1436	
Zinc	ppm	ASTM D5185m		2	2	
Sulfur	ppm	ASTM D5185m		27499	25056	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	14	7	
Sodium	ppm	ASTM D5185m		3	3	
Potassium	ppm	ASTM D5185m	>20	2	3	
Water	%	ASTM D6304	>.2	0.048	0.033	
ppm Water	ppm	ASTM D6304	>2000	485	336.7	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	<u> </u>	
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u>^</u> 27939	
Particles >14µm		ASTM D7647	>640	278	98	
Particles >21µm		ASTM D7647	>160	51	11	
Particles >38μm		ASTM D7647	>40	2	1	
Particles >71μm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/21/15	<u>4</u> 24/22/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.22	2.38	



## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No.

Laboratory

: WC0934505 Lab Number : 06180657 Unique Number : 11031983

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 May 2024 **Tested** : 17 May 2024 Diagnosed

: 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.

US 10591 Contact: GIANNA CREDAROLI gianna.credaroli@basf.com

500 WHITE PLAINS RD

TARRYTOWN, NY

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

T:

F: