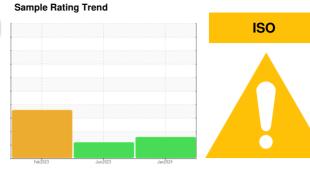


OIL ANALYSIS REPORT

Area **TSI**Machine Id TSI 12854

Front Differential

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

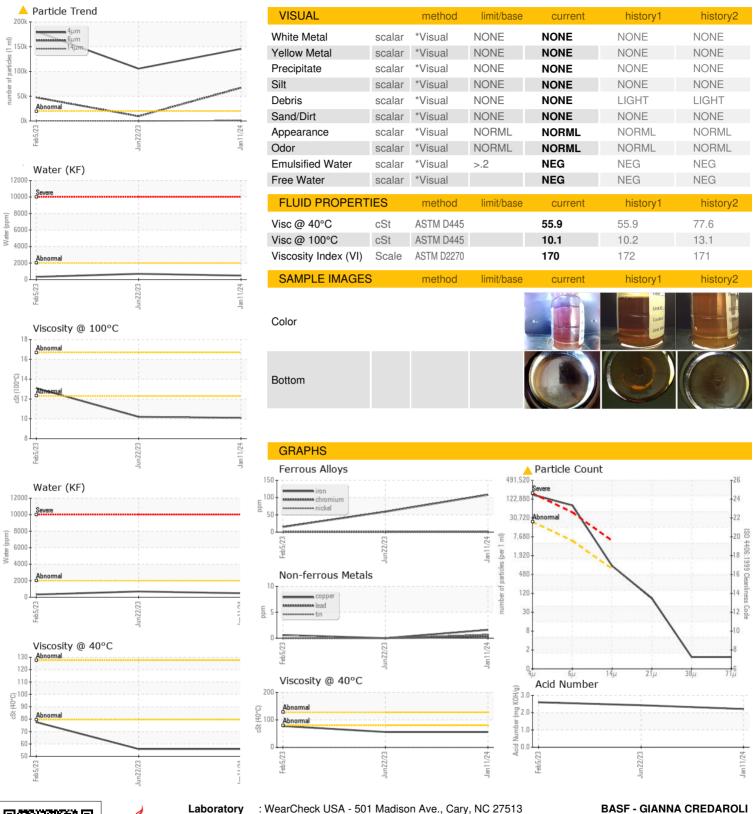
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934507	WC0771186	WC0771170
Sample Date		Client Info		11 Jan 2024	22 Jun 2023	05 Feb 2023
Machine Age	mls	Client Info		160595	59778	1086
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	108	59	15
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	2	0	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		288	277	298
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		4	2	4
Magnesium	ppm	ASTM D5185m		1	0	2
Calcium	ppm	ASTM D5185m		3	<1	11
Phosphorus	ppm	ASTM D5185m		1713	1569	1403
Zinc	ppm	ASTM D5185m		3	0	9
Sulfur	ppm	ASTM D5185m		29105	29887	23442
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	13	6	9
Sodium	ppm	ASTM D5185m		3	<1	6
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water	%	ASTM D6304	>.2	0.048	0.069	0.033
ppm Water	ppm	ASTM D6304	>2000	481	698.8	330.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	145608	▲ 105679	1 80858
Particles >6µm		ASTM D7647	>5000	△ 66997	9581	47497
Particles >14µm		ASTM D7647	>640	^ 799	16	378
Particles >21µm		ASTM D7647	>160	74	3	36
Particles >38μm		ASTM D7647	>40	1	1	1
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/23/17	2 4/20/11	2 5/23/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.21	2.43	2.60



OIL ANALYSIS REPORT





Laboratory Sample No.

: WC0934507 Lab Number : 06180651 Unique Number: 11031977

Tested : 17 May 2024 Diagnosed : 18 May 2024 - Jonathan Hester Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

Received

: 15 May 2024

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Certificate 12367

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: