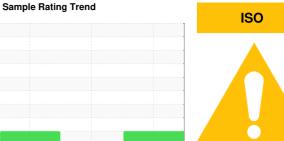


PROBLEM SUMMARY



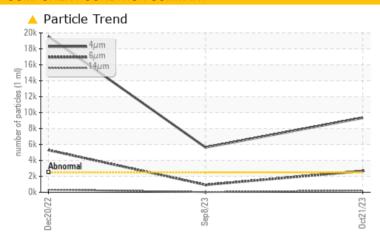
ENDEAVOR

Component

1 Steering

SHELL TELLUS T46 (--- QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Particles >4μm	ASTM D7647	>2500	<u> </u>	<u>▲</u> 5627	<u>19549</u>				
Particles >6μm	ASTM D7647	>640	2673	934	<u></u> 5300				
Particles >14μm	ASTM D7647	>80	<u> </u>	23	△ 332				
Particles >21μm	ASTM D7647	>20	64	4	<u>^</u> 72				
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<u>^</u> 20/19/15	<u>\</u> 20/17/12	▲ 21/20/16				

Customer Id: CITSANUS Sample No.: WC0847401 Lab Number: 06013236 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

08 Sep 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.



20 Dec 2022 Diag: Angela Borella

ISO



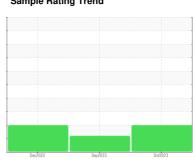
Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



ENDEAVOR

Component

1 Steering

SHELL TELLUS T46 (--- QTS)

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 fluid.

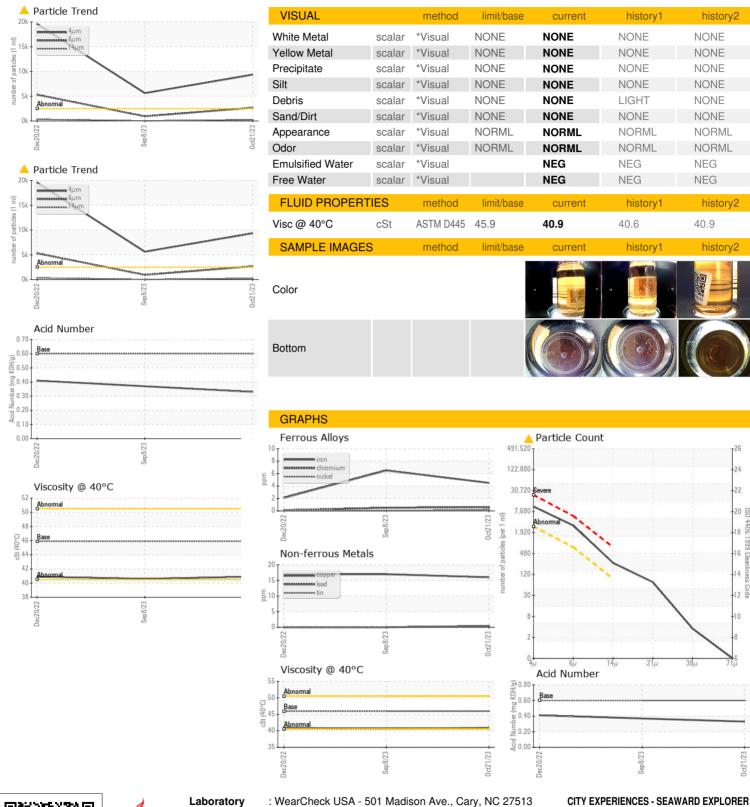
Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is acceptable for the time in service.

		Dec	2022	Sep2023 0	let2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0847401	WC0834555	WC0754313
Sample Date		Client Info		21 Oct 2023	08 Sep 2023	20 Dec 2022
Machine Age	hrs	Client Info		4850	6000	4046
Oil Age	hrs	Client Info		0	6000	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	_	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	4	6	2
Chromium	ppm	ASTM D5185m	>12	<1	<1	<1
Nickel	ppm	ASTM D5185m	>6	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	0	0	0
Lead	ppm	ASTM D5185m	>12	<1	0	0
Copper	ppm	ASTM D5185m	>30	16	17	17
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	0	1	3	0
Calcium	ppm	ASTM D5185m	48	64	71	67
Phosphorus	ppm	ASTM D5185m	337	367	371	366
Zinc	ppm	ASTM D5185m	426	472	458	448
Sulfur	ppm	ASTM D5185m	2280	1628	1906	1809
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	<1	<1	0
Sodium	ppm	ASTM D5185m		<1	2	<1
Potassium	ppm	ASTM D5185m	>20	0	1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	9339	<u></u> ▲ 5627	▲ 19549
Particles >6µm		ASTM D7647	>640	2673	4 934	<u></u> 5300
Particles >14µm		ASTM D7647	>80	228	23	△ 332
Particles >21µm		ASTM D7647	>20	<u></u> 64	4	<u> </u>
Particles >38μm		ASTM D7647	>4	3	0	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u>^</u> 20/19/15	△ 20/17/12	△ 21/20/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.6	0.33	0.37	0.41



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0847401 : 06013236 : 10752380 Test Package : MAR 2 (Additional Tests: PrtCount)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Nov 2023 Diagnosed : 22 Nov 2023

Diagnostician : Don Baldridge

SAN DIEGO, CA US 92103

2825 5TH AVENUE

Contact: Service Manager

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.

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

T: F: