

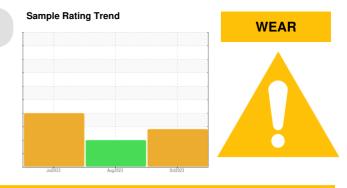
PROBLEM SUMMARY

ENDEAVOR

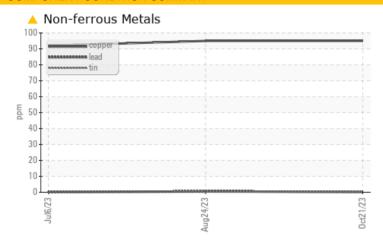
Component

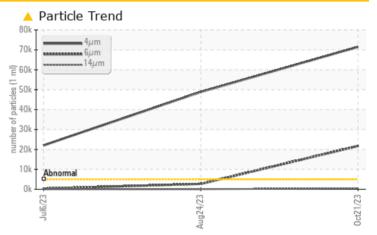
Center Hydraulic System

SHELL TELLUS T46 (30 GAL)



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			
Copper	ppm	ASTM D5185m	>20	4 95	<u></u> 95	△ 92			
Particles >4µm		ASTM D7647	>5000	1485	48875	<u>22068</u>			
Particles >6µm		ASTM D7647	>1300	21737	<u>^</u> 2692	327			
Particles >14µm		ASTM D7647	>160	498	37	19			
Particles >21μm		ASTM D7647	>40	<u></u> 51	7	6			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/22/16	23/19/12	<u>22/16/11</u>			

Customer Id: CITSANUS Sample No.: WC0847404 Lab Number: 06012323 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

24 Aug 2023 Diag: Don Baldridge

WEAR



We recommend you service the filters on this component. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



06 Jul 2023 Diag: Doug Bogart

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. Appearance is hazy. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend

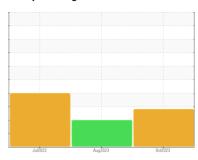


ENDEAVOR

Component

Center Hydraulic System

SHELL TELLUS T46 (30 GAL)





Recommendation

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

Wear

The copper level is abnormal. All other 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 acceptable for the time in service.

		Juiz023		Aug2023 Oct20	173	
SAMPLE INFORM	MATION					hiotomyO
	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0847404	WC0834548	WC0834565
Sample Date		Client Info		21 Oct 2023	24 Aug 2023	06 Jul 2023
Machine Age	hrs	Client Info		0	0	5700
Oil Age	hrs	Client Info		0	0	5700
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>20	4 95	<u></u> 95	△ 92
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	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		0	<1	0
Magnesium	ppm	ASTM D5185m	0	0	5	0
Calcium	ppm	ASTM D5185m	48	27	23	25
Phosphorus	ppm	ASTM D5185m	337	241	282	280
Zinc	ppm	ASTM D5185m	426	254	295	290
Sulfur	ppm	ASTM D5185m	2280	1882	2492	2663
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	<1	<1
Sodium	ppm	ASTM D5185m		<1	1	<1
Potassium	ppm	ASTM D5185m	>20	0	1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1485	△ 48875	<u>22068</u>
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>^</u> 2692	327
Particles >14μm		ASTM D7647	>160	498	37	19
Particles >21µm		ASTM D7647	>40	<u></u> 51	7	6
Particles >38μm		ASTM D7647	>10	0	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/22/16	<u>△</u> 23/19/12	<u>^</u> 22/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

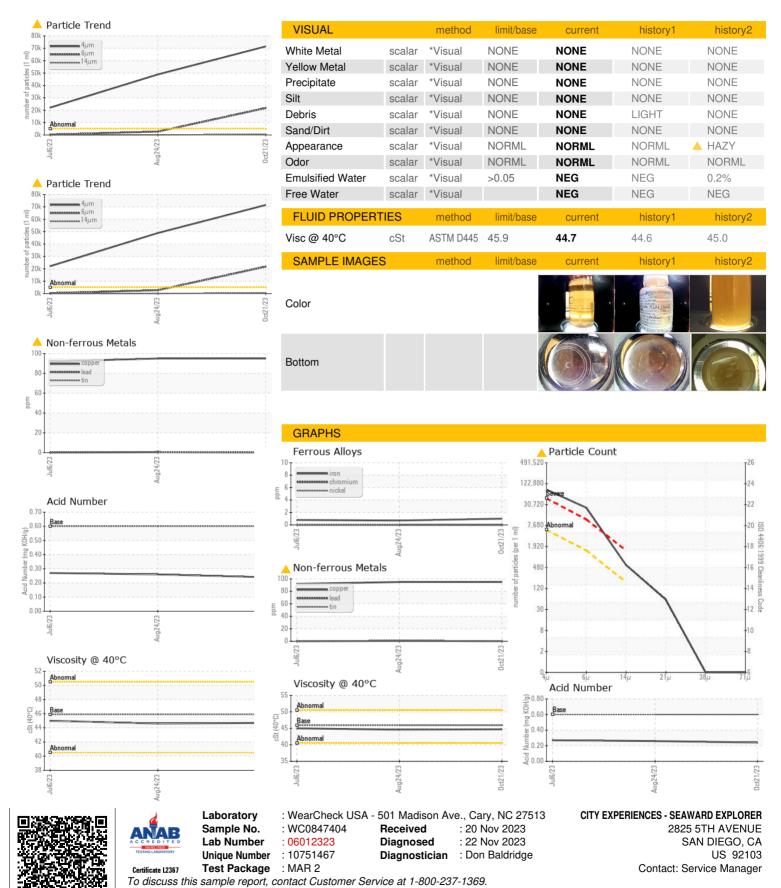
Acid Number (AN)

mg KOH/g ASTM D8045 .6

0.27



OIL ANALYSIS REPORT



* - 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: