

RECOMMENDATION

60

10.

0 Limm

Mav6/23

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

	-					
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Copper	ppm	ASTM D5185m	>30	<mark>人</mark> 58	<u> </u>	<u> 60</u>
Particles >4µm		ASTM D7647	>2500	A 3617	3 344	13627
Particles >6µm		ASTM D7647	>640	<mark>人</mark> 783	565	A 2434
Oil Cleanliness		ISO 4406 (c)	>18/16/13	 19/17/12	19/16/13	🔺 21/18/14

Customer Id: SEANEW Sample No.: WC0859363 Lab Number: 06012335 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 **WEAR**

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

27 Aug 2023 Diag: Doug Bogart



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is a moderate amount of particulates present in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

06 May 2023 Diag: Don Baldridge



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The copper level is abnormal. All other 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 suitable for further service.





Report Id: SEANEW [WUSCAR] 06012335 (Generated: 11/22/2023 10:44:55) Rev: 1



OIL ANALYSIS REPORT

Area SEAWARD EXPLORER Machine Id Explorer - Hydraulics Component

2 Steering Fluid SHELL TELLUS T46 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

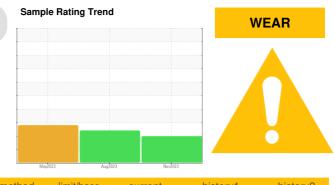
The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition

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



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0859363	WC0818090	WC0806904	
Sample Date		Client Info		08 Nov 2023	27 Aug 2023	06 May 2023	
Machine Age	hrs	Client Info		5742	1784	4593	
Oil Age	hrs	Client Info		5742	0	0	
Oil Changed		Client Info		Not Changd	N/A	Not Changd	
Sample Status				ABNORMAL	ATTENTION	ABNORMAL	
CONTAMINATIO	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	7	8	7	
Chromium	ppm	ASTM D5185m	>12	1	<1	1	
Nickel	ppm	ASTM D5185m	>6	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum		ASTM D5185m	>1	<1	0	0	
	ppm		>4 >12		2	1	
Lead	ppm	ASTM D5185m		1			
Copper	ppm	ASTM D5185m	>30	<u>▲</u> 58	<u>▲</u> 62	▲ 60	
Tin	ppm	ASTM D5185m		0	0	0	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	<1	
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	2	0	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	0	0	2	0	
Calcium	ppm	ASTM D5185m	48	60	43	37	
Phosphorus	ppm	ASTM D5185m	337	336	383	333	
Zinc	ppm	ASTM D5185m	426	393	386	390	
Sulfur	ppm			1256	1694	1484	
CONTAMINANTS	5	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>10	2	<1	<1	
Sodium	ppm	ASTM D5185m		6	5	4	
Potassium	ppm	ASTM D5185m	>20	0	0	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>2500	A 3617	▲ 3344	▲ 13627	
Particles >6µm		ASTM D7647	>640	<mark>/</mark> 783	565	A 2434	
Particles >14µm		ASTM D7647	>80	37	80	🔺 111	
Particles >21µm		ASTM D7647	>20	10	A 38	A 32	
Particles >38µm		ASTM D7647	>4	1	4 5	2	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	1 9/17/12	▲ 19/16/13	▲ 21/18/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	.6	0.26	0.38	0.25	

Submitted By: PETER CHARBONNET



14 12

〒120 〒100

nber of particles 8k

6k

4

2

0

491,520

122.880

7.68 [Der]

1.92 articles 48

120

30

14

12 Î of particles (1 10 8 6 nher 4

0

0.7 0.60

(BHO) 0.50

Ê 0.40

Å 0.30

0.20

0.10

0.00

52

5

4

4

3

Bas

Aav6/

Abnorma

Acid Number

€ 30,720

OIL ANALYSIS REPORT

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

45.9

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

current

NEG

NEG

41.5

history1

LIGHT

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

history1

no image

no image

NFG

NEG

41.3

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

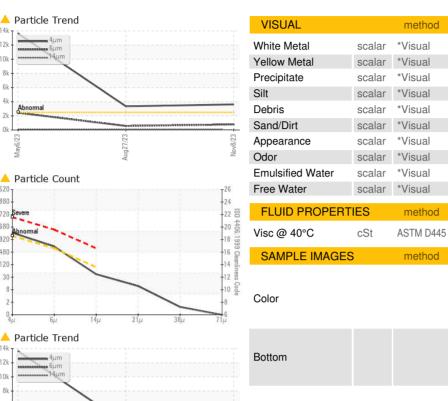
history2

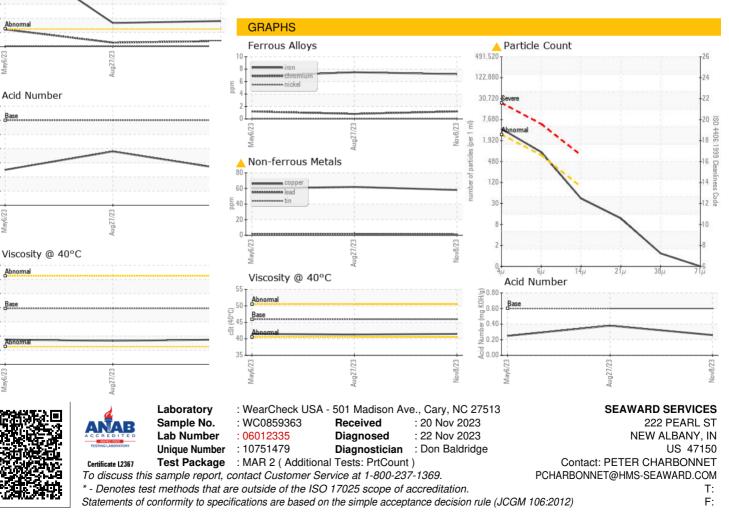
history2

NEG

NEG

41.5





Submitted By: PETER CHARBONNET