

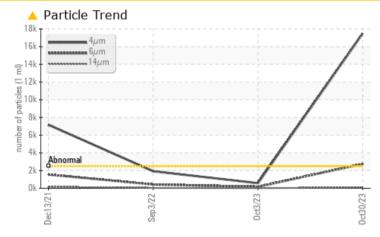
## **PROBLEM SUMMARY**

#### Area OCEAN VOYAGER Machine Id [OCEAN VOYAGER] OCEAN VOYAGER STEERING SB Component

**Starboard Steering** 

CASTROL HYSPIN AWH-M ISO 32 (400 LTR)

## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

THOBEEN THO TEOT THE					
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>2500	<u> </u>	574	1921
Particles >6µm	ASTM D7647	>640	🔺 2757	166	425
Particles >14µm	ASTM D7647	>80	<u> </u>	10	37
Particles >21µm	ASTM D7647	>20	<u> </u>	2	12
Particles >38µm	ASTM D7647	>4	<u> </u>	0	1
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>A</b> 21/19/14	16/15/10	18/16/12

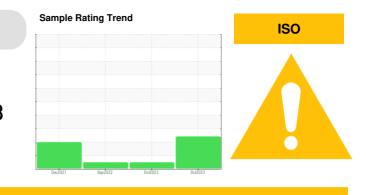
Customer Id: VICNEWIN Sample No.: WC0824865 Lab Number: 06006267 Test Package: MAR 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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



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

### HISTORICAL DIAGNOSIS

### NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

# view report

view report

### 03 Sep 2022 Diag: Jonathan Hester

03 Oct 2023 Diag: Angela Borella

### NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

13 Dec 2021 Diag: Jonathan Hester

Oil and filter change at the time of sampling has been noted. 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 suitable for further service.







## **OIL ANALYSIS REPORT**

## OCEAN VOYAGER [OCEAN VOYAGER] OCEAN VOYAGER STEERING SB Component

Starboard Steering

DIAGNOSIS

monitor.

the fluid.

Wear

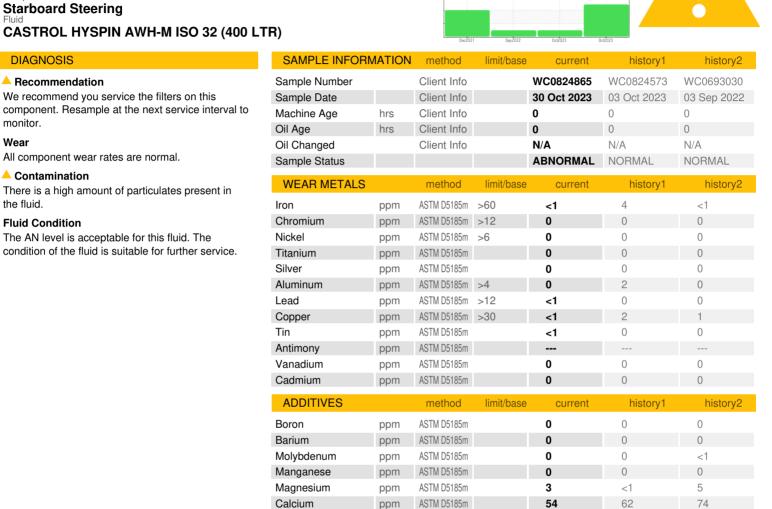
Recommendation

Contamination

Fluid Condition

All component wear rates are normal.

CASTROL HYSPIN AWH-M ISO 32 (400 LTR)



Sample Rating Trend

ISO

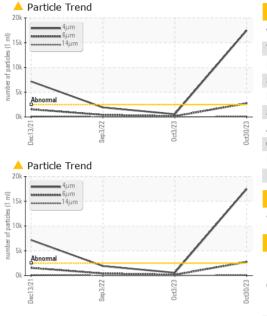
Magnesium	ppm	ASTM D5185m		3	<1	5
Calcium	ppm	ASTM D5185m		54	62	74
Phosphorus	ppm	ASTM D5185m		384	380	404
Zinc	ppm	ASTM D5185m		456	499	494
Sulfur	ppm	ASTM D5185m		2592	2546	3272
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>10	1	1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Potassium FLUID CLEANLIN		ASTM D5185m method	>20 limit/base	0 current	<1 history1	0 history2
				-		-
FLUID CLEANLIN		method	limit/base	current	history1	history2
FLUID CLEANLIN Particles >4µm		method ASTM D7647	limit/base >2500 >640	current	history1 574	history2 1921
FLUID CLEANLIN Particles >4μm Particles >6μm		method ASTM D7647 ASTM D7647	limit/base >2500 >640	current ▲ 17487 ▲ 2757	<mark>history1</mark> 574 166	history2 1921 425
FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm		method ASTM D7647 ASTM D7647 ASTM D7647	limit/base >2500 >640 >80	current ▲ 17487 ▲ 2757 ▲ 97	history1 574 166 10	history2 1921 425 37

Particles >6µm	ASTM D7647 >640	🔺 2757	166
Particles >14µm	ASTM D7647 >80	<mark>人</mark> 97	10
Particles >21µm	ASTM D7647 >20	<u> </u>	2
Particles >38µm	ASTM D7647 >4	<u> </u>	0

Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>	16/15/10	18/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.41	0.39

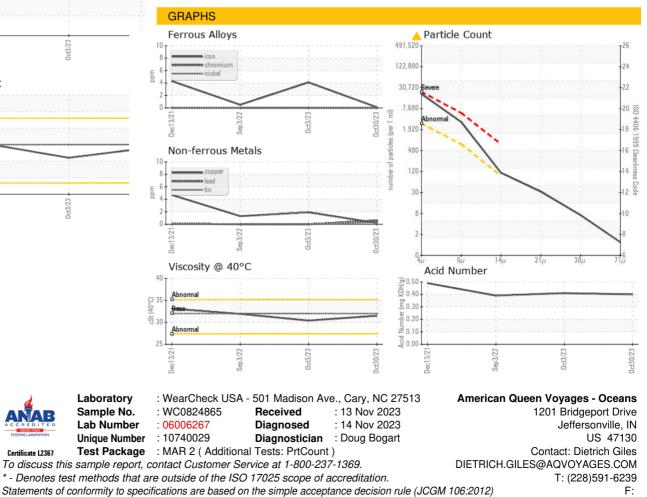


# **OIL ANALYSIS REPORT**



Dec1:	Sept	0 ct3	
Acid Numb	ber		
40			
30 -			
40 - 30 - 20 - 10 -			
10			
10-			
Dec13/21 00	Sep3/22	0ct3/23 +	
Viscosity @		043/23 +	
Viscosity @		0c3/23 +	
Viscosity @		0ct3/23 +	
Viscosity @		0et3/23 -	
Viscosity @ Abnomal Base		0et3/23 -	
Viscosity @ Abnormal Base Abnormal			
Viscosity @ Abnomal Base		0ct3/23 + 0ct3/23 -	

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.0	31.5	30.4	31.9
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						CHILDREN CONTRACTOR
Bottom					(0)	



Contact/Location: Dietrich Giles - VICNEWIN