

PROBLEM SUMMARY

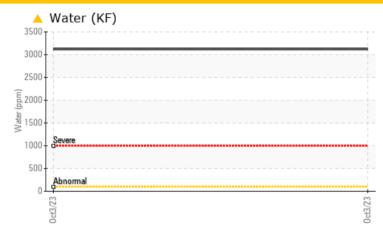
OCEAN VOYAGER [OCEAN VOYAGER] OCEAN VOYAGER

Bow Thruster

NOT GIVEN (--- LTR)

Sample Rating Trend WATER Deckor Judgez Seedozz Aurdozz Juniforz Judgez Occhozz

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

PROBLEMATIC T	TEST RE	SULTS				
Sample Status				ABNORMAL	NORMAL	NORMAL
Water	%	ASTM D6304	>0.2	△ 0.312		
ppm Water	ppm	ASTM D6304		△ 3120		
Appearance	scalar	*Visual	NORML	▲ MILKY	NORML	NORML

Customer Id: VICNEWIN Sample No.: WC0824580 Lab Number: 05968896 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Water Access			?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

08 Jul 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



30 Jun 2023 Diag: Don Baldridge

NORMAL



The oil 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 no indication of any contamination in the oil. Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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



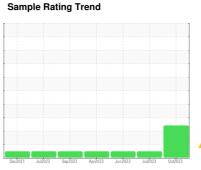


OIL ANALYSIS REPORT

OCEAN VOYAGER OCEAN VOYAGER] OCEAN VOYAGER

Bow Thruster

NOT GIVEN (--- LTR)





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Appearance is milky. There is a light concentration of water present in the oil.

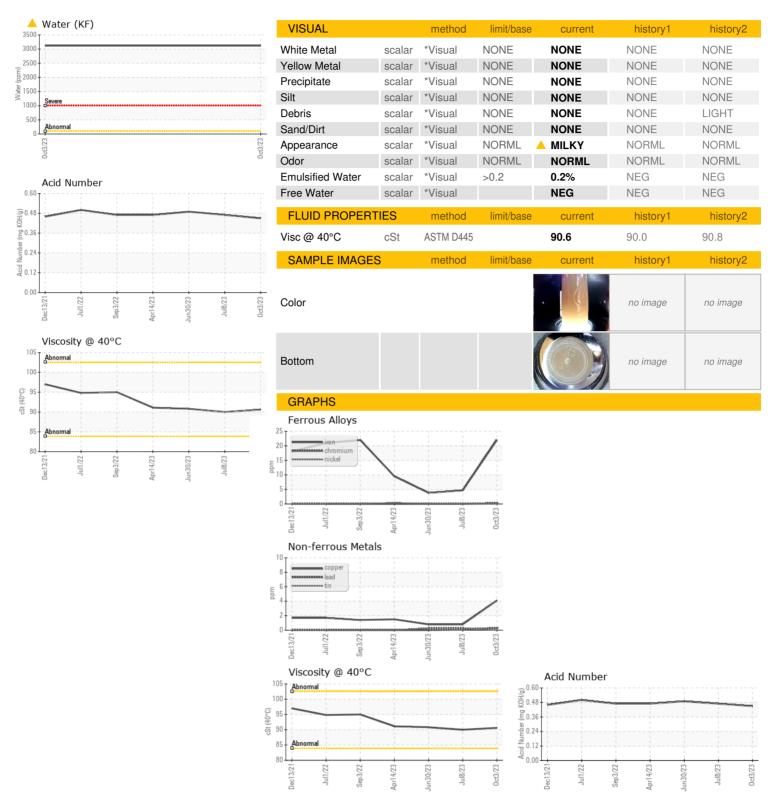
Fluid Condition

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		WC0824580	WC0824822	WC0824827
Sample Date		Client Info		03 Oct 2023	08 Jul 2023	30 Jun 2023
Machine Age	hrs	Client Info		0	420	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	22	5	4
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	3	<1	<1
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>20	4	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
	ρρ	//OTIVI DOTOOIII		U	O	O
ADDITIVES	PP	method	limit/base	current	history1	history2
	ppm		limit/base			
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current <1	history1	history2 2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current <1 0	history1 2 0	history2 2 0
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current <1 0 0	history1 2 0 0	history2 2 0 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<pre>current <1 0 0 </pre>	history1 2 0 0	history2 2 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<pre>current <1 0 0 <1 2</pre>	history1 2 0 0 <1 3	history2 2 0 0 0 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current <1 0 0 <1 2 22	history1 2 0 0 0 1 3 11	history2 2 0 0 0 3 9
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current <1 0 0 <1 2 22 301	history1 2 0 0 <1 3 11 311	history2 2 0 0 0 3 9 307
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current <1 0 0 <1 2 22 301 47	history1 2 0 0 <1 3 11 311 10	history2 2 0 0 3 9 307
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m		current <1 0 0 <1 2 22 301 47 8978	history1 2 0 0 <1 3 11 311 10 11201	history2 2 0 0 0 3 9 307 2 11148
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current <1 0 0 <1 2 22 301 47 8978 current	history1 2 0 0 <1 3 11 311 10 11201 history1	history2 2 0 0 3 9 307 2 11148 history2 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base	current <1 0 0 <1 2 22 301 47 8978 current 4	history1 2 0 0 <1 3 11 311 10 11201 history1 <1	history2 2 0 0 0 3 9 307 2 11148 history2 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >7 >20	current <1 0 0 <1 2 22 301 47 8978 current 4	history1 2 0 0 <1 3 11 311 10 11201 history1 <1	history2 2 0 0 0 3 9 307 2 11148 history2 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >7 >20	current <1 0 0 <1 2 22 301 47 8978 current 4 2 <1	history1 2 0 0 <1 3 11 311 10 11201 history1 <1 1 3	history2 2 0 0 0 3 9 307 2 11148 history2 <1 1 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >7 >20	current <1 0 0 <1 2 22 301 47 8978 current 4 2 <1 ▲ 0.312	history1 2 0 0 <1 3 11 311 10 11201 history1 <1 1 3	history2 2 0 0 3 9 307 2 11148 history2 <1 1 3



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 05968896 : 10675447

Test Package : MAR 2 (Additional Tests: KF)

: WC0824580

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.

American Queen Voyages - Oceans

1201 Bridgeport Drive Jeffersonville, IN

US 47130 Contact: Dietrich Giles

DIETRICH.GILES@AQVOYAGES.COM

T: (228)591-6239 F:

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Diagnostician

Received

Diagnosed

: 04 Oct 2023

: 10 Oct 2023

: Jonathan Hester