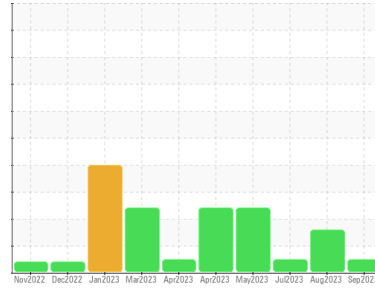




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**AMERICAN COUNTESS**  
 Machine Id  
**[AMERICAN COUNTESS] AMERICAN COUNTESS - Z DRIVE CTR**  
 Component  
**Center Gearbox**  
 Fluid  
**MOBIL MOBILGEAR 600 XP ISO 150 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0829318</b>	WC0829320	WC0829313
Sample Date	Client Info		<b>15 Sep 2023</b>	15 Aug 2023	15 Jul 2023
Machine Age	hrs	Client Info	<b>15196</b>	0	0
Oil Age	hrs	Client Info	<b>360</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>155</b>	60	63
Chromium	ppm	ASTM D5185m >10	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m >10	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >200	<b>2</b>	4	5
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>5</b>	7	6
Barium	ppm	ASTM D5185m	<b>2</b>	0	<1
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>2</b>	1	2
Calcium	ppm	ASTM D5185m	<b>35</b>	8	8
Phosphorus	ppm	ASTM D5185m	<b>275</b>	303	362
Zinc	ppm	ASTM D5185m	<b>13</b>	8	6
Sulfur	ppm	ASTM D5185m	<b>9171</b>	8878	11481

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>4</b>	0	3
Sodium	ppm	ASTM D5185m	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	1

## FLUID DEGRADATION

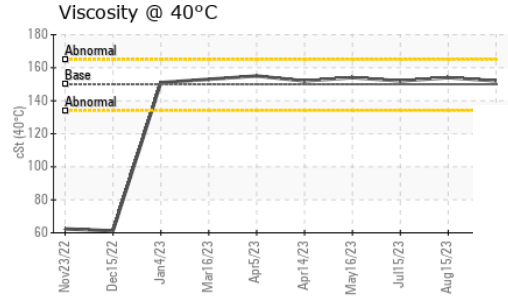
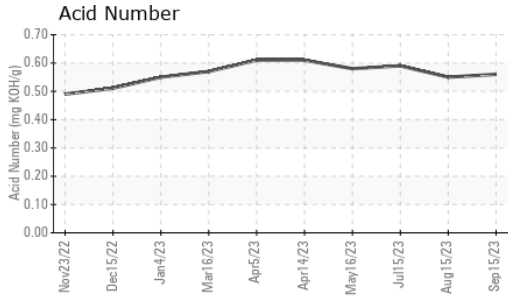
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.56</b>	0.55	0.59

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	<b>NEG</b>	0.2%	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



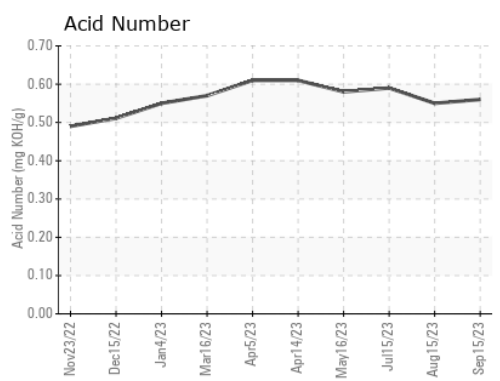
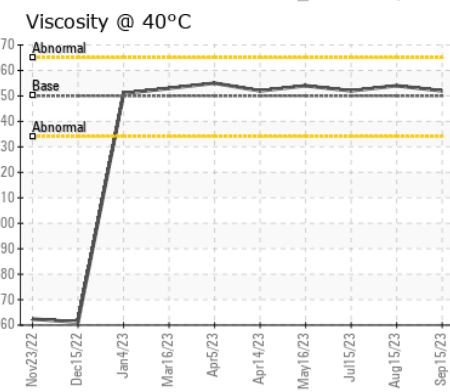
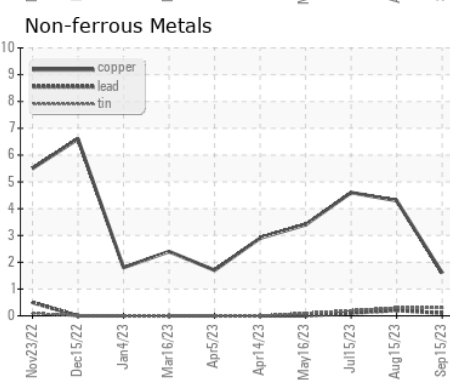
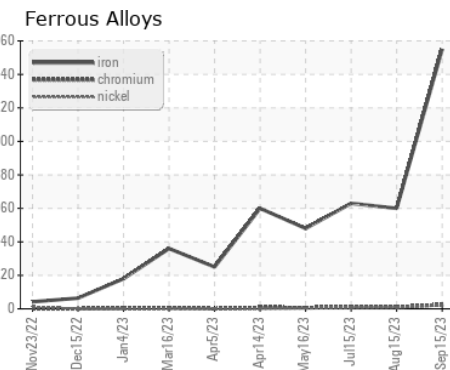
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	<b>152</b>	154	152

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0829318 **Received** : 25 Sep 2023  
**Lab Number** : 05960741 **Diagnosed** : 27 Sep 2023  
**Unique Number** : 10661954 **Diagnostician** : Don Baldrige  
**Test Package** : MAR 2

**American Queen Voyages - Mississippi River Boats**  
 1201 Bridgeport Drive  
 Jeffersonville, IN  
 US 47130  
 Contact: David Martin  
 David.Martin@aqvoyages.com  
 T: (601)441-8494  
 F:

Certificate L2367  
 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)