



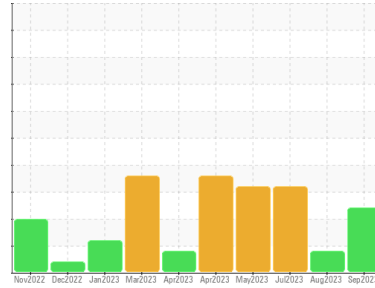
PROBLEM SUMMARY

Sample Rating Trend

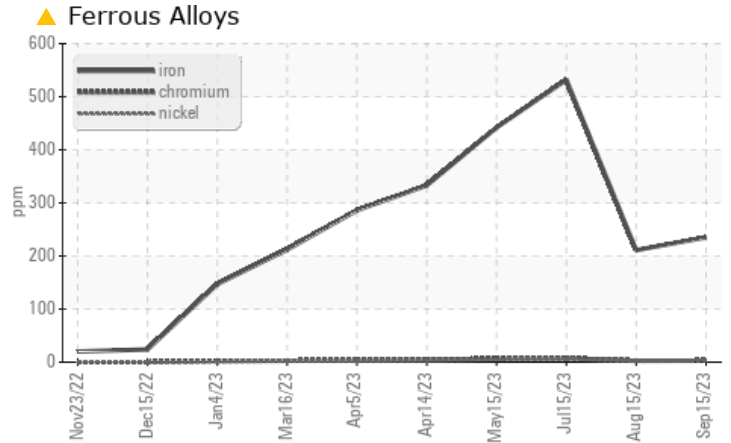
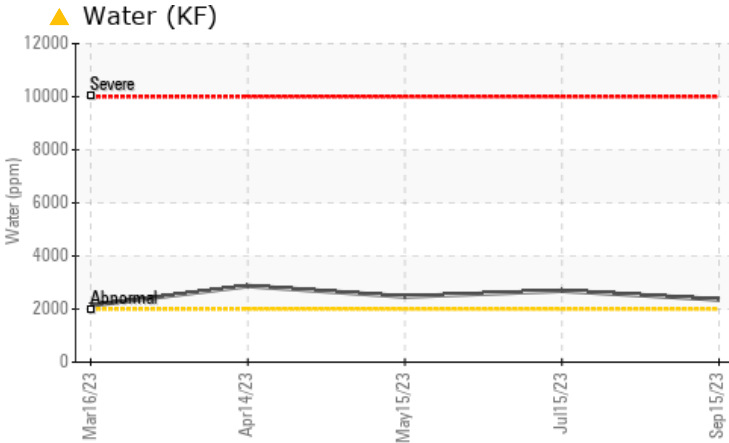
WATER



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



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>200	▲ 235	▲ 211	▲ 532
Water	%	ASTM D6304	>0.2	▲ 0.236	---	▲ 0.269
ppm Water	ppm	ASTM D6304	>2000	▲ 2360	---	▲ 2690

Customer Id: AMEMEMTN
 Sample No.: WC0829322
 Lab Number: 05960743
 Test Package: MAR 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Aug 2023 Diag: Angela Borella

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other 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.

view report



15 Jul 2023 Diag: Don Baldrige

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. Appearance is hazy. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



15 May 2023 Diag: Jonathan Hester

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. Appearance is hazy. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

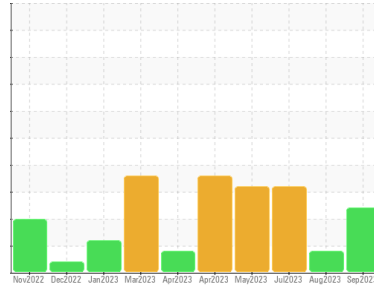
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



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

DIAGNOSIS

▲ Recommendation

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

▲ Wear

Gear wear is indicated.

▲ Contamination

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0829322	WC0829321	WC0829312
Sample Date	Client Info		15 Sep 2023	15 Aug 2023	15 Jul 2023
Machine Age	hrs	Client Info	13086	0	0
Oil Age	hrs	Client Info	360	0	0
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	▲ 235	▲ 211	▲ 532
Chromium	ppm	ASTM D5185m >10	3	3	7
Nickel	ppm	ASTM D5185m >10	3	2	5
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >25	<1	<1	1
Lead	ppm	ASTM D5185m >50	<1	0	<1
Copper	ppm	ASTM D5185m >200	6	4	8
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	3	17
Barium	ppm	ASTM D5185m	2	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	2
Manganese	ppm	ASTM D5185m	2	2	4
Magnesium	ppm	ASTM D5185m	2	2	5
Calcium	ppm	ASTM D5185m	16	7	22
Phosphorus	ppm	ASTM D5185m	319	327	369
Zinc	ppm	ASTM D5185m	14	11	19
Sulfur	ppm	ASTM D5185m	9612	10546	11291

CONTAMINANTS

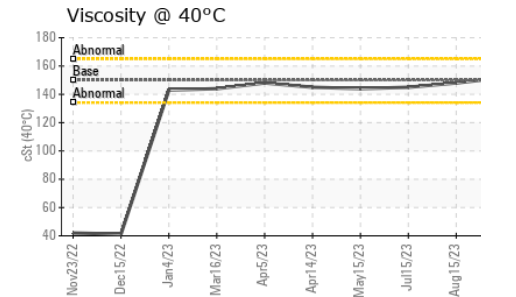
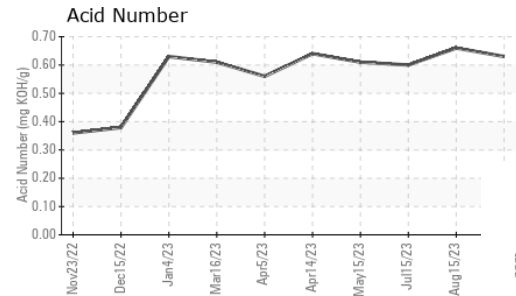
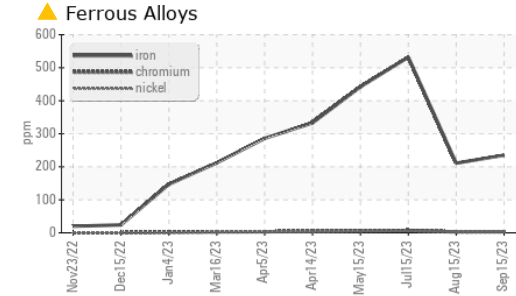
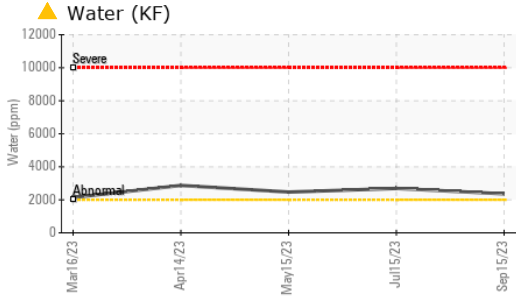
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	3	0	7
Sodium	ppm	ASTM D5185m	<1	0	0
Potassium	ppm	ASTM D5185m >20	<1	<1	1
Water	%	ASTM D6304 >0.2	▲ 0.236	---	▲ 0.269
ppm Water	ppm	ASTM D6304 >2000	▲ 2360	---	▲ 2690

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.63	0.66	0.60



OIL ANALYSIS REPORT



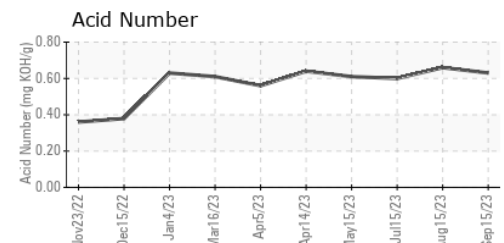
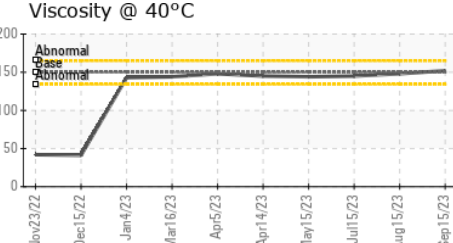
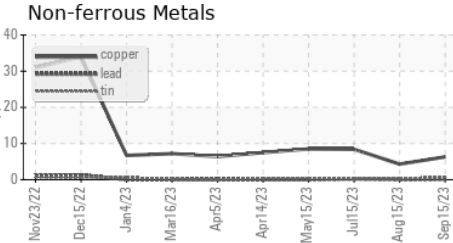
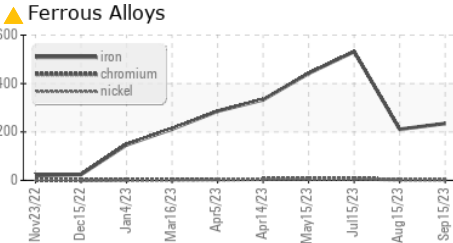
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	152	148

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0829322 **Received** : 25 Sep 2023
Lab Number : 05960743 **Diagnosed** : 27 Sep 2023
Unique Number : 10661956 **Diagnostician** : Don Baldrige
Test Package : MAR 2 (Additional Tests: KF)

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)