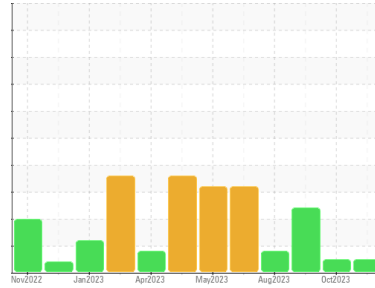




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



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

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

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	WC0829326	WC0829329	WC0829322
Sample Date	Client Info	15 Nov 2023	15 Oct 2023	15 Sep 2023
Machine Age	hrs	14061	0	13086
Oil Age	hrs	0	0	360
Oil Changed	Client Info	Not Chngd	N/A	Not Chngd
Sample Status		NORMAL	NORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	100	98	▲ 235
Chromium	ppm ASTM D5185m >10	1	1	3
Nickel	ppm ASTM D5185m >10	1	<1	3
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	<1	0	0
Aluminum	ppm ASTM D5185m >25	<1	0	<1
Lead	ppm ASTM D5185m >50	0	0	<1
Copper	ppm ASTM D5185m >200	2	3	6
Tin	ppm ASTM D5185m >10	<1	0	<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	16	14	5
Barium	ppm ASTM D5185m	0	0	2
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	<1	<1	2
Magnesium	ppm ASTM D5185m	<1	1	2
Calcium	ppm ASTM D5185m	5	5	16
Phosphorus	ppm ASTM D5185m	349	336	319
Zinc	ppm ASTM D5185m	0	0	14
Sulfur	ppm ASTM D5185m	8058	8269	9612

CONTAMINANTS

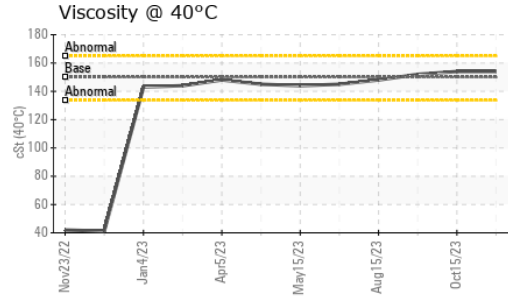
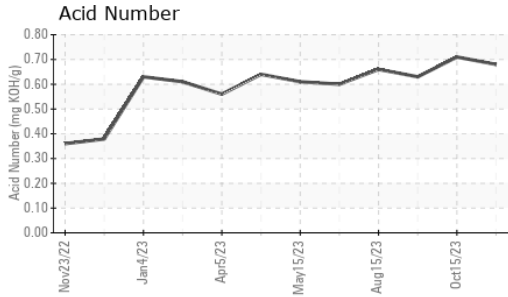
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	2	2	3
Sodium	ppm ASTM D5185m	0	0	<1
Potassium	ppm ASTM D5185m >20	0	<1	<1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.68	0.71	0.63



OIL ANALYSIS REPORT



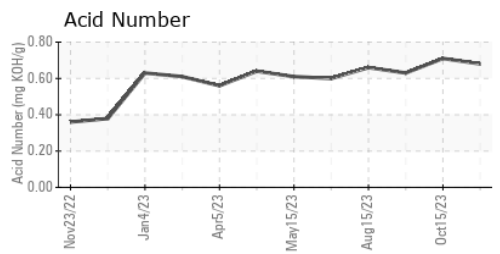
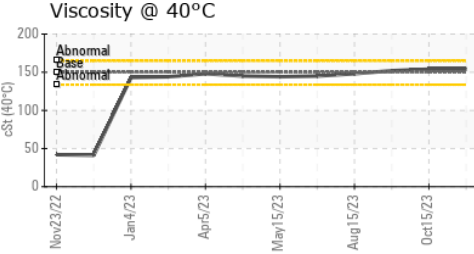
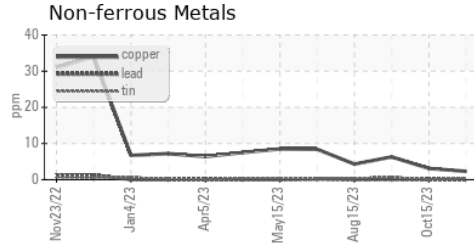
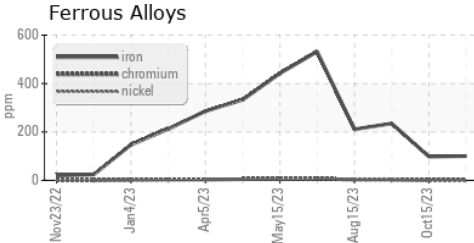
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	150	154	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. : WC0829326 **Received** : 20 Nov 2023
Lab Number : **06013394** **Diagnosed** : 21 Nov 2023
Unique Number : 10752538 **Diagnostician** : Wes Davis
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)