

PROBLEM SUMMARY

Sample Rating Trend

WEAR



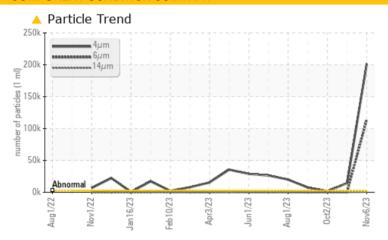
MERCURY MARINE

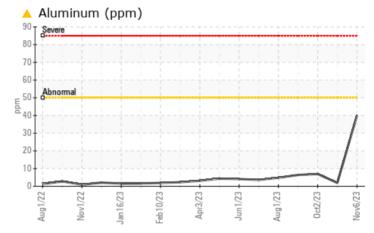
Component

Transmission (Auto)

CASTROL TRANSMAX SYNTHETIC MV ATF (45 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Aluminum	ppm	ASTM D5185m	>50	40	2	7		
Particles >4µm		ASTM D7647	>2500	<u> </u>	1 4346	1477		
Particles >6µm		ASTM D7647	>640	113824	39	39		
Particles >14µm		ASTM D7647	>80	419	4	4		
Particles >21µm		ASTM D7647	>20	<u></u> 64	1	1		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	25/24/16	<u> </u>	18/12/9		

Customer Id: HAWCHANC Sample No.: WC0791134 Lab Number: 06001006 Test Package: IND 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
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

01 Nov 2023 Diag: Don Baldridge





No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



02 Oct 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. 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.

07 Sep 2023 Diag: Don Baldridge

ISO



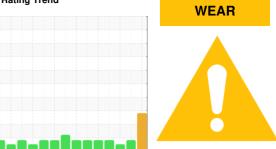
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MERCURY MARINE

Component

Transmission (Auto)

CASTROL TRANSMAX SYNTHETIC MV ATF (45 GAL)

DIAGNOSIS

Recommendation

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

Wear

The aluminum level is marginal.

Contamination

There is a high amount of particulates present in the fluid.

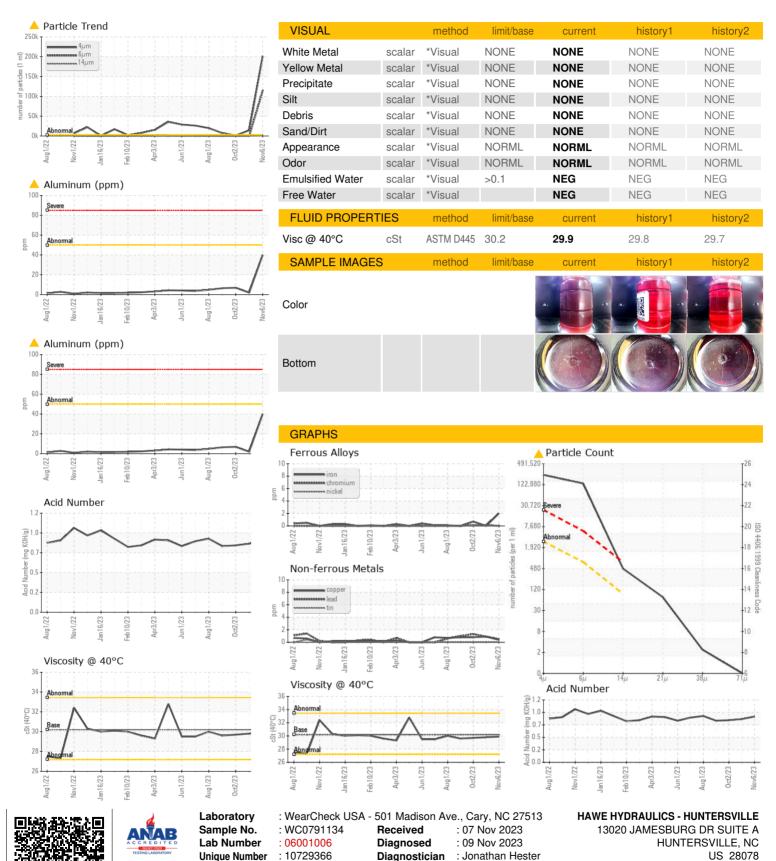
Fluid Condition

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

F (45 GAL)		ug2022 Nov2	122 Jan 2023 Feb 2023	Apr2023 Jun2023 Aug2023 Oct2	023 Nov202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0791134	WC0791130	WC0791124
Sample Date		Client Info		06 Nov 2023	01 Nov 2023	02 Oct 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	2	0	<1
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	<u>40</u>	2	7
Lead	ppm	ASTM D5185m	>50	<1	<1	1
Copper	ppm	ASTM D5185m	>225	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
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	100	100	95	98
Barium	ppm	ASTM D5185m	0	36	32	23
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	10	<1	0	<1
Magnesium	ppm	ASTM D5185m	0	0	0	<1
Calcium	ppm	ASTM D5185m	370	73	75	74
Phosphorus	ppm	ASTM D5185m	300	207	183	205
Zinc	ppm	ASTM D5185m	0	13	3	5
Sulfur	ppm	ASTM D5185m	1600	795	909	973
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	<1	1
Sodium	ppm	ASTM D5185m		5	0	3
Potassium	ppm	ASTM D5185m	>20	0	2	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u>^</u> 201403	<u> </u>	1477
Particles >6μm		ASTM D7647	>640	<u> </u>	39	39
Particles >14µm		ASTM D7647	>80	<u>419</u>	4	4
Particles >21µm		ASTM D7647	>20	<u>^</u> 64	1	1
Particles >38µm		ASTM D7647	>4	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u>^</u> 25/24/16	<u>^</u> 21/12/9	18/12/9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.88	0.83	0.81



OIL ANALYSIS REPORT



Test Package : IND 2 (Additional Tests: PrtCount)

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.



Certificate L2367

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