

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# Machine Id MERCURY MARINE Component

Transmission (Auto)

Fluid CASTROL TRANSMAX SYNTHETIC MV ATF (45 GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

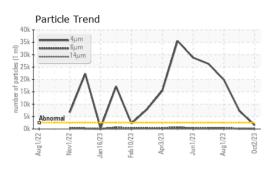
## **Fluid Condition**

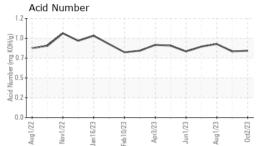
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

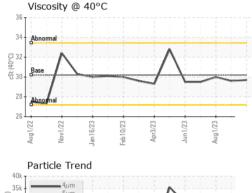
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0791124	WC0791121	WC0791115
Sample Date		Client Info		02 Oct 2023	07 Sep 2023	01 Aug 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	<1	0	<1
Chromium	ppm	ASTM D5185m	>5	<1	0	0
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	7	6	5
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	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	98	95	100
Barium	ppm	ASTM D5185m	0	23	17	15
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	10	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m	370	74	73	75
Phosphorus	ppm	ASTM D5185m	300	205	212	216
Zinc	ppm	ASTM D5185m	0	5	0	0
Sulfur	ppm	ASTM D5185m	1600	973	965	977
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	<1
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1477	▲ 7414	▲ 19883
Particles >6µm		ASTM D7647	>640	39	143	388
Particles >14µm		ASTM D7647	>80	4	14	10
Particles >21µm		ASTM D7647	>20	1	4	3
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/12/9	▲ 20/14/11	🔺 21/16/10
FLUID DEGRADA		method	limit/base	current	history1	history2
	mg KOH/g	ASTM D8045				



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33k 30k 225k 20k 15k 10k

5k Abno

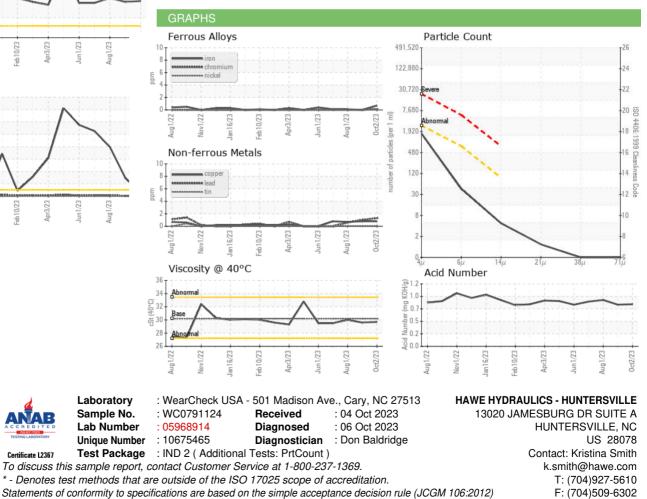
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	30.2	29.7	29.6	30.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						A store



Bottom



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Contact/Location: Kristina Smith - HAWCHANC