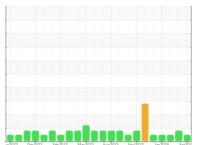


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



**NORMAL** 



Machine Id **MERCURY MARINE** 

Component Transmission (Auto)

CASTROL TRANSMAX SYNTHETIC MV ATF (45 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

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.

(45 GAL)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0921216	WC0791151	WC0791146
Sample Date		Client Info		01 Apr 2024	01 Mar 2024	01 Feb 2024
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	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>160	1	0	0
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>50	5	6	4
Lead	ppm	ASTM D5185m	>50	2	0	<1
Copper	ppm	ASTM D5185m	>225	1	<1	<1
Tin	ppm	ASTM D5185m	>10	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	100	87	91	78
Barium	ppm	ASTM D5185m	0	34	47	38
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m	10	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	2	0	0
Calcium	ppm	ASTM D5185m	370	80	74	65
Phosphorus	ppm	ASTM D5185m	300	238	209	199
Zinc	ppm	ASTM D5185m	0	10	0	4
Sulfur	ppm	ASTM D5185m	1600	954	895	859
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	1	1
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	2	<1	2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	489	<u> </u>	335
Particles >6µm		ASTM D7647	>640	105	60	98
Particles >14µm		ASTM D7647	>80	9	7	10
Particles >21µm		ASTM D7647	>20	1	2	3
Particles >38µm		ASTM D7647	>4	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/14/10	<u>^</u> 21/13/10	16/14/10
FLUID DEGRAD	ATION _	method	limit/base	current	history1	history2
	1/01::	10711 006 :-			0.00	

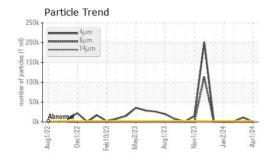
Acid Number (AN)

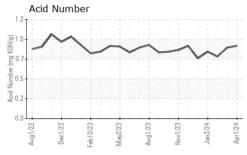
mg KOH/g ASTM D8045

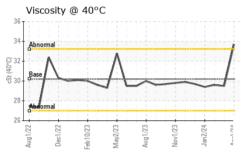
0.86

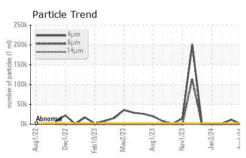


## **OIL ANALYSIS REPORT**









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
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

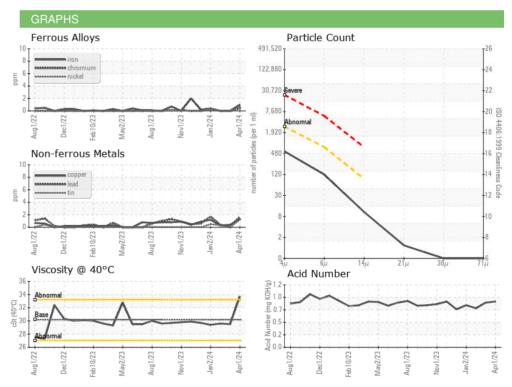
I LOID I HOI LI	TILO	memou			HISTORY	HISTOLYZ
Visc @ 40°C	cSt	ASTM D445	30.2	33.7	29.5	29.6

SAM	PLE IN	/AGE	S
O,			_

Color

**Bottom** 









Laboratory Sample No.

: WC0921216 Lab Number : 06136325 Unique Number : 10955790

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 02 Apr 2024 : 03 Apr 2024 Diagnosed

: 04 Apr 2024 - Don Baldridge

Contact: Kristina Smith

T: (704)927-5610 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)509-6302

Contact/Location: Kristina Smith - HAWCHANC

**HAWE HYDRAULICS - HUNTERSVILLE** 

13020 JAMESBURG DR SUITE A

HUNTERSVILLE, NC

k.smith@hawe.com

Certificate 12367

Test Package : IND 2 ( Additional Tests: PrtCount ) 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.

US 28078