

# PROBLEM SUMMARY

Sample Rating Trend

WEAR



Machine Id  
**MOTIVA UNIT 12**

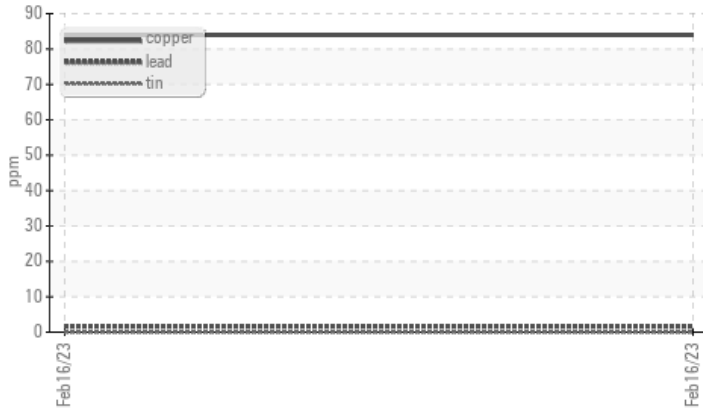
Component  
**Outboard Pump**

Fluid  
**ROYAL PURPLE SYNFILM GT 32 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### Non-ferrous Metals



## RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Copper	ppm	ASTM D5185m	>30	84	---	---
White Metal	scalar	*Visual	NONE	MODER	---	---

Customer Id: MAGHOU  
Sample No.: RP0028239  
Lab Number: 05797604  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id  
**MOTIVA UNIT 12**

Component  
**Outboard Pump**

Fluid  
**ROYAL PURPLE SYNFILM GT 32 (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

Moderate concentration of visible metal present. Bearing and/or bushing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0028239</b>	---	---
Sample Date	Client Info		<b>16 Feb 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>5</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m >5	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m >3	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >7	<b>0</b>	---	---
Lead	ppm	ASTM D5185m >12	<b>2</b>	---	---
Copper	ppm	ASTM D5185m >30	<b>84</b>	---	---
Tin	ppm	ASTM D5185m >9	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>8</b>	---	---
Calcium	ppm	ASTM D5185m	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>4</b>	---	---
Zinc	ppm	ASTM D5185m	<b>17</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	<b>3</b>	---	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---	---
Water	%	ASTM D6304	<b>0.004</b>	---	---
ppm Water	ppm	ASTM D6304 >.1	<b>42.4</b>	---	---

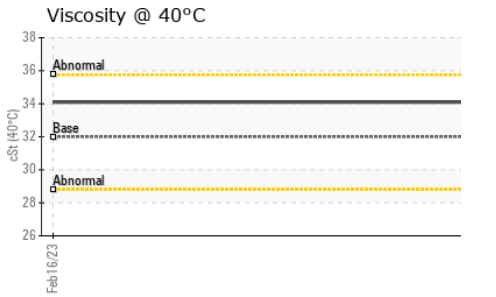
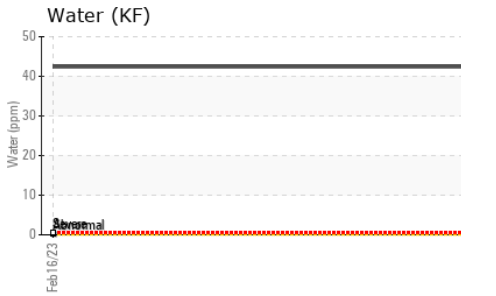
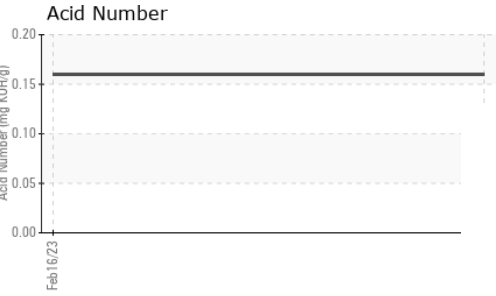
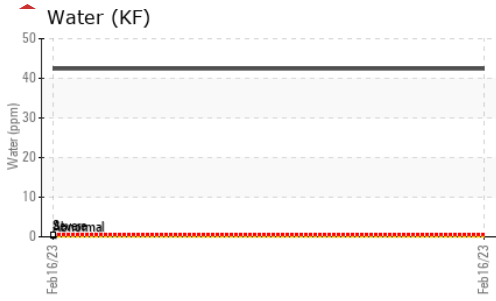
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.16</b>	---	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>▲ MODER</b>	---	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual NONE	<b>LIGHT</b>	---	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	<b>NEG</b>	---	---
Free Water	scalar	*Visual	<b>NEG</b>	---	---

# OIL ANALYSIS REPORT

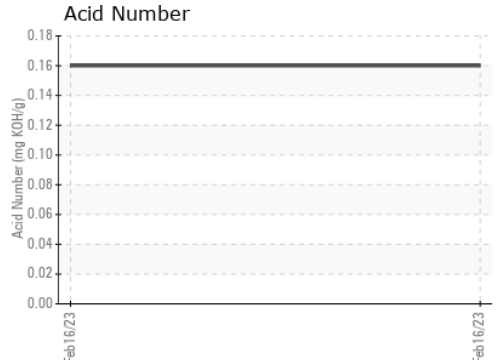
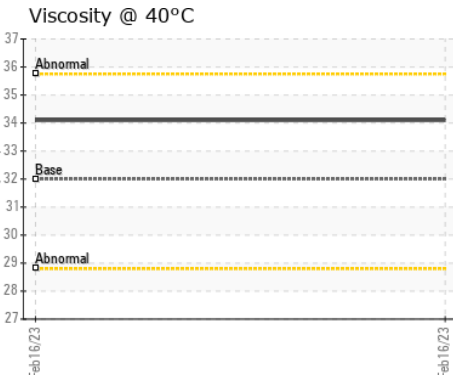
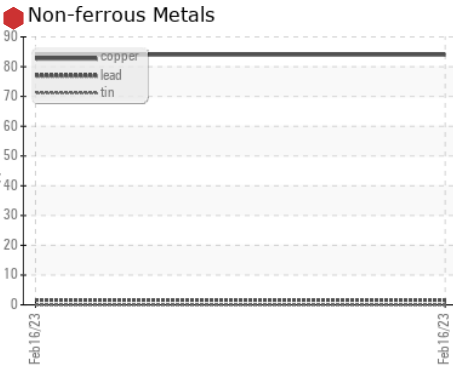
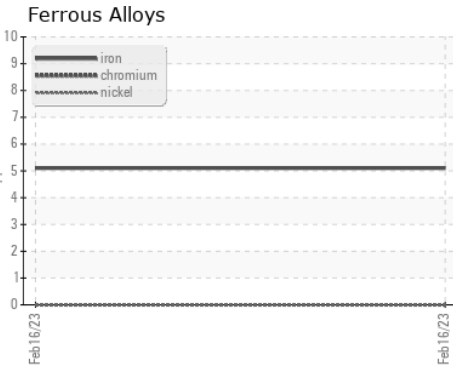


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	<b>34.1</b>	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0028239  
**Lab Number** : **05797604**  
**Unique Number** : 10387288  
**Test Package** : IND 2

**MAGELLAN MIDSTREAM - EH TERMINAL**  
 7901 WALLISVILLE RD  
 HOUSTON, TX  
 US 77029  
 Contact: LOGAN SEYL  
 logan.seyl@magellanlp.com

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)

T:  
F: