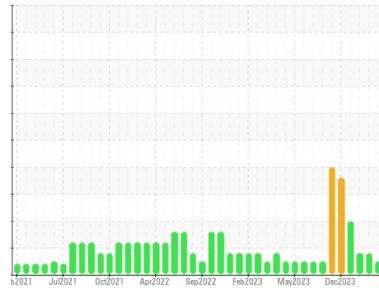




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**CRM74**

Machine Id

**CRM 74 MILL MOTOR LUBRICATION SYSTEM (S/N 16-2400-0700)**

Component

**Tank Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 46 (92 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

### 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	<b>RP0044095</b>	RP0042573	RP0042120
Sample Date	Client Info	<b>24 Jun 2024</b>	21 Feb 2024	07 Feb 2024
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	ATTENTION	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>0</b>	0
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0
Silver	ppm	ASTM D5185m	<b>0</b>	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	0
Copper	ppm	ASTM D5185m >20	<b>4</b>	2
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>0</b>	0
Barium	ppm	ASTM D5185m 5	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m 5	<b>0</b>	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0
Magnesium	ppm	ASTM D5185m 25	<b>&lt;1</b>	0
Calcium	ppm	ASTM D5185m 200	<b>43</b>	41
Phosphorus	ppm	ASTM D5185m 300	<b>296</b>	296
Zinc	ppm	ASTM D5185m 370	<b>300</b>	330

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>1</b>	1
Sodium	ppm	ASTM D5185m	<b>1</b>	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0
Water	%	ASTM D6304 >0.05	<b>0.004</b>	0.004
ppm Water	ppm	ASTM D6304 >500	<b>50</b>	49

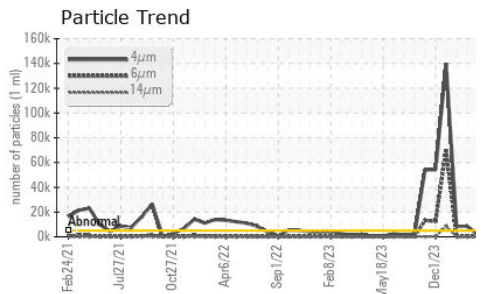
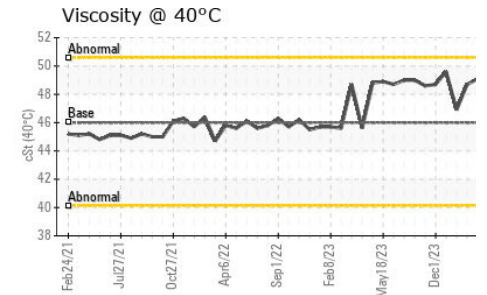
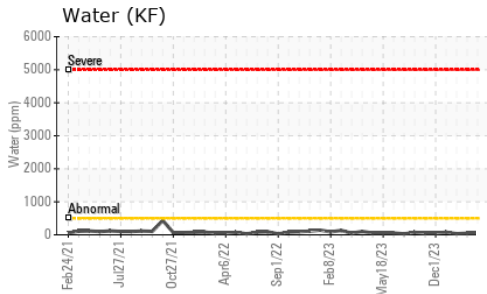
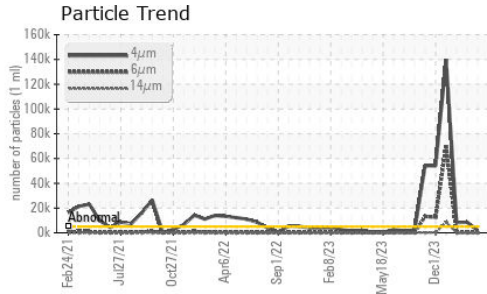
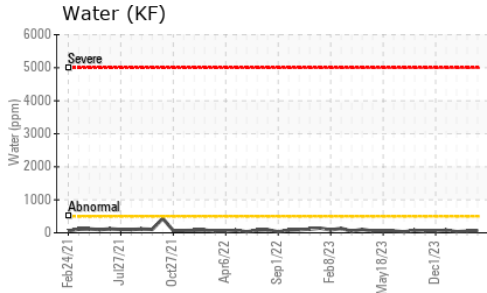
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>1845</b>	8569	8216
Particles >6µm	ASTM D7647 >1300	<b>111</b>	262	139
Particles >14µm	ASTM D7647 >160	<b>7</b>	21	6
Particles >21µm	ASTM D7647 >40	<b>3</b>	7	2
Particles >38µm	ASTM D7647 >10	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>18/14/10</b>	20/15/12	20/14/10

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	<b>0.54</b>	0.54

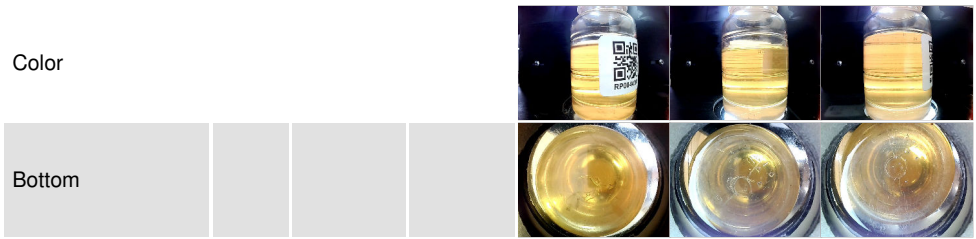
# OIL ANALYSIS REPORT



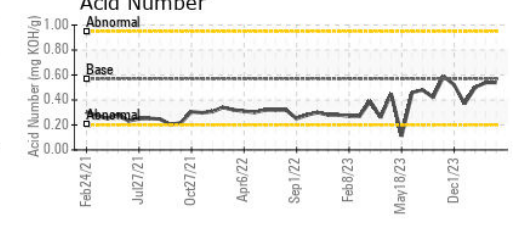
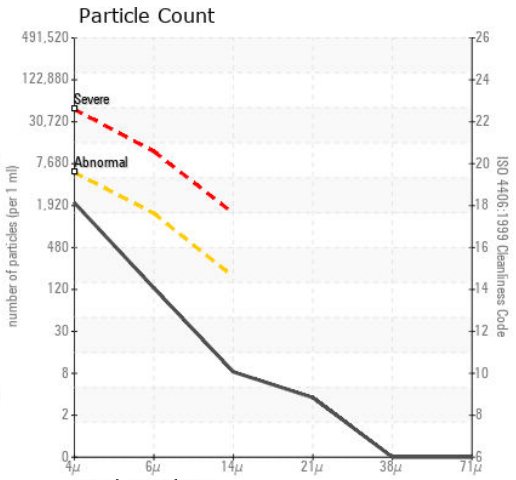
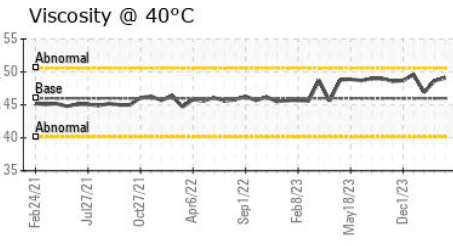
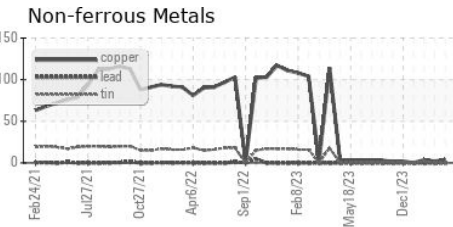
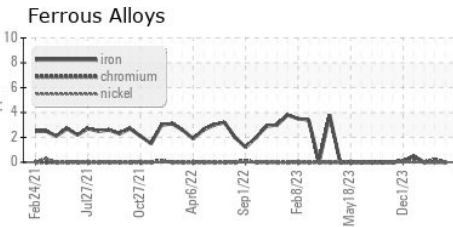
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	49.1	48.7	46.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0044095  
**Lab Number** : 06219656  
**Unique Number** : 11097853  
**Test Package** : IND 2  
**Received** : 25 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Wes Davis

**OUTOKUMPU STAINLESS USA**  
 HWY 43 N  
 CALVERT, AL  
 US 36513  
 Contact: MARIO JOHNSON  
 Mario.johnson@outokumpu.com  
 T: (251)321-4105  
 F: x:

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)