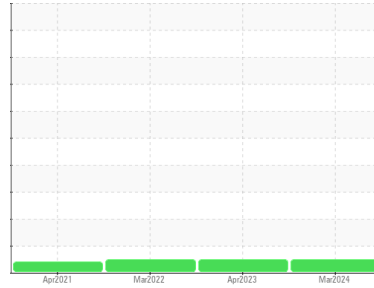




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**[1137]**

Machine Id

**C&M CM3442-3DAT48 H1811025 - FIRST QUALITY**

Component

**Hydraulic System**

Fluid

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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>WC0885300</b>	WC0759701	WC0633952
Sample Date	Client Info	<b>20 Mar 2024</b>	05 Apr 2023	31 Mar 2022
Machine Age	yrs Client Info	<b>0</b>	0	0
Oil Age	yrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>Filtered</b>	Filtered	Filtered
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	<b>1</b>	9	6
Chromium	ppm ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >10	<b>0</b>	<1	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m >10	<b>0</b>	0	0
Lead	ppm ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm ASTM D5185m >75	<b>0</b>	<1	<1
Tin	ppm ASTM D5185m >10	<b>0</b>	0	<1
Antimony	ppm ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 5	<b>0</b>	<1	4
Barium	ppm ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 5	<b>&lt;1</b>	2	2
Manganese	ppm ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m 25	<b>3</b>	17	16
Calcium	ppm ASTM D5185m 200	<b>104</b>	169	169
Phosphorus	ppm ASTM D5185m 300	<b>364</b>	507	460
Zinc	ppm ASTM D5185m 370	<b>496</b>	715	648
Sulfur	ppm ASTM D5185m 2500	<b>2589</b>	6156	4282

## CONTAMINANTS

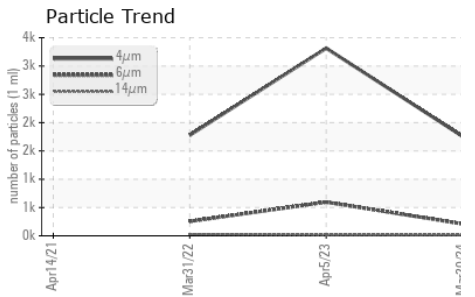
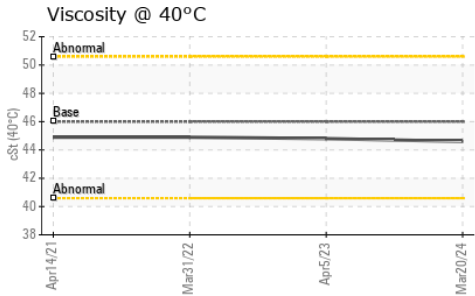
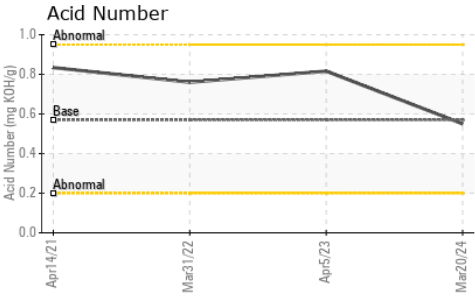
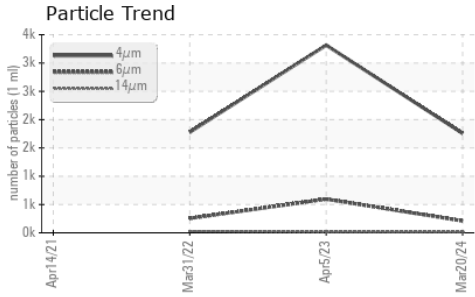
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>0</b>	<1	0
Sodium	ppm ASTM D5185m	<b>2</b>	1	0
Potassium	ppm ASTM D5185m >20	<b>0</b>	<1	0

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>1756</b>	3315	1777
Particles >6µm	ASTM D7647 >5000	<b>211</b>	596	255
Particles >14µm	ASTM D7647 >640	<b>14</b>	17	30
Particles >21µm	ASTM D7647 >160	<b>3</b>	4	9
Particles >38µm	ASTM D7647 >40	<b>0</b>	0	1
Particles >71µm	ASTM D7647 >10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/19/16	<b>18/15/11</b>	19/16/11	18/15/12



# OIL ANALYSIS REPORT

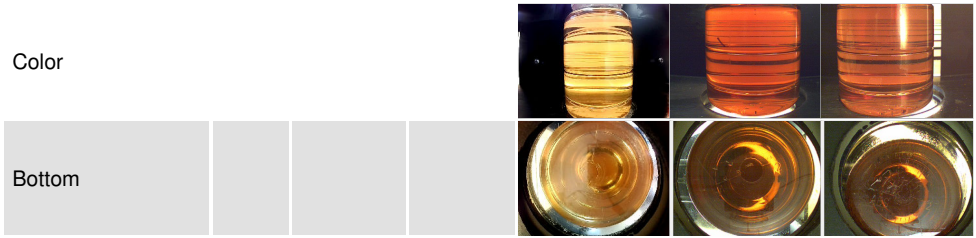


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.55</b>	0.816	0.76

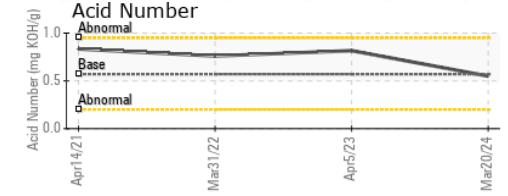
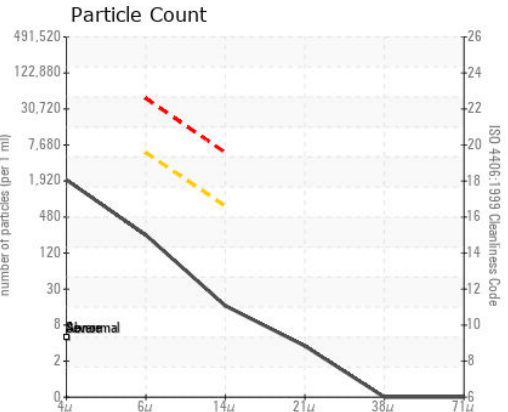
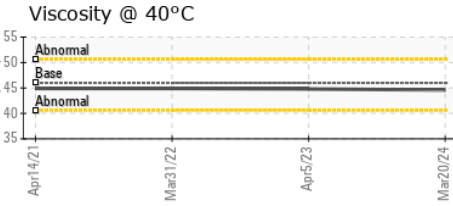
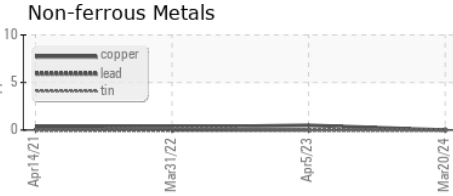
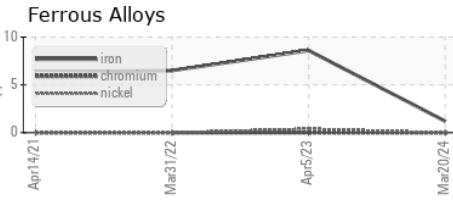
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	<b>44.6</b>	44.8	44.9

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0885300  
**Lab Number** : **06132728**  
**Unique Number** : 10952193  
**Test Package** : IND 2  
**Received** : 28 Mar 2024  
**Tested** : 01 Apr 2024  
**Diagnosed** : 01 Apr 2024 - Wes Davis

**ADVANCED EQUIPMENT SALES**  
 535 HAGEY RD  
 SOUDERTON, PA  
 US 18964  
 Contact: JEFF BURNLEY  
 jburnley@aesales.net  
 T: (215)723-7200  
 F: (215)723-7201

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)