

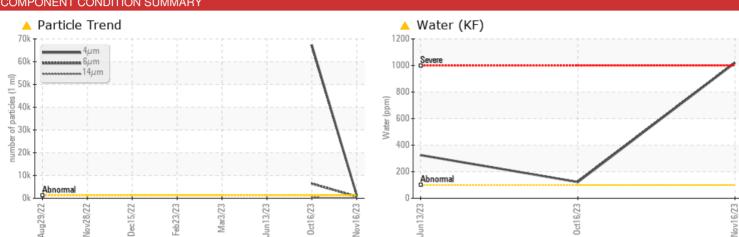
PROBLEM SUMMARY

Paper Cup Machines PMC 1003 POS-431 (S/N 193568) Component

Circulating System

SUMMIT Syngear SH-1032 320 (85 GAL)

COMPONENT CONDITION SUMMARY



Emulsified Water

Free Water

RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS Sample Status SEVERE ABNORMAL ABNORMAL Water ASTM D6304 0.102 0.012 0.032 % ppm Water ASTM D6304 1020 122.1 325.1 ppm Particles >4µm ASTM D7647 >1300 1348 67241 Particles >6µm ASTM D7647 >320 735 6446 Particles >14µm ASTM D7647 >80 **125 177** Particles >21um ASTM D7647 >20 42 **5**4 Particles >38µm ASTM D7647 7 3 >4 **Oil Cleanliness** ISO 4406 (c) >17/15/13 18/17/14 23/20/15 Appearance *Visual NORML HAZY HAZY HAZY scalar

0.2%

1.0

NEG

NEG

NEG

NEG

*Visual

scalar *Visual

scalar

Sample Rating Trend

Customer Id: DARDALTX Sample No.: TO50001971 Lab Number: 06014033 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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



WATER

| RECOMMENDED ACTIONS | | | | | | | |
|---------------------|--------|------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Action | Status | Date | Done By | Description | | | |
| Water Drain-off | | | ? | We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. | | | |
| Resample | | | ? | We recommend an early resample to monitor this condition. | | | |

HISTORICAL DIAGNOSIS



16 Oct 2023 Diag: Jonathan Hester

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

13 Jun 2023 Diag: Jonathan Hester



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

03 Mar 2023 Diag: Jonathan Hester





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.







OIL ANALYSIS REPORT

Area Paper Cup Machines Machine Id PMC 1003 POS-431 (S/N 193568) Component

Circulating System Fluid SUMMIT Syngear SH-1032 320 (85 GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

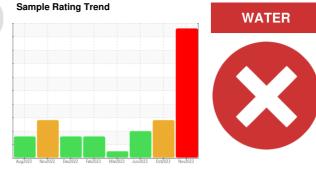
All component wear rates are normal.

Contamination

Appearance is hazy. There is a high amount of particulates present in the oil. Free water present. There is a trace of moisture present in the oil.

Fluid Condition

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



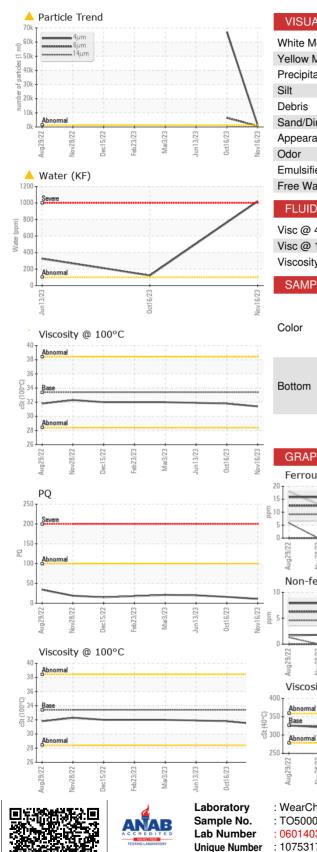
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|---------------|--------------|------------|-----------------|-------------|-------------|
| Sample Number | | Client Info | | TO50001971 | TO50001683 | TO50001727 |
| Sample Date | | Client Info | | 16 Nov 2023 | 16 Oct 2023 | 13 Jun 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | N/A | N/A |
| Sample Status | | | | SEVERE | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184 | | 11 | 16 | 20 |
| Iron | ppm | ASTM D5185m | | 14 | 13 | 19 |
| Chromium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | 6 | 6 | 8 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | | 3 | 2 | 3 |
| Tin | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 92 | 92 | 144 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | | 56 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | | 461 | 498 | 633 |
| Zinc | ppm | ASTM D5185m | | 2 | 0 | 6 |
| Sulfur | ppm | ASTM D5185m | | 6808 | 7816 | 11923 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | | 2918 | 3032 | 4131 |
| Sodium | ppm | ASTM D5185m | | 4 | 2 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 1 |
| Water | % | ASTM D6304 | | <u> </u> | 0.012 | 0.032 |
| ppm Water | ppm | ASTM D6304 | | 1020 | 122.1 | 325.1 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >1300 | 1348 | 67241 | |
| Particles >6µm | | ASTM D7647 | >320 | <u> </u> | 6446 | |
| Particles >14µm | | ASTM D7647 | >80 | <u> </u> | 1 77 | |
| Particles >21µm | | ASTM D7647 | >20 | <u> </u> | 5 4 | |
| Particles >38µm | | ASTM D7647 | >4 | <u> </u> | 3 | |
| Particles >71µm | | ASTM D7647 | >3 | 1 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >17/15/13 | 18/17/14 | ▲ 23/20/15 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | ma KOH/a | ASTM D8045 | | 0.75 | 0.63 | 0.87 |

Acid Number (AN) mg H Report Id: DARDALTX [WUSCAR] 06014033 (Generated: 11/30/2023 10:38:05) Rev: 1 0.63 0.87 Submitted By: YON PALOMINO

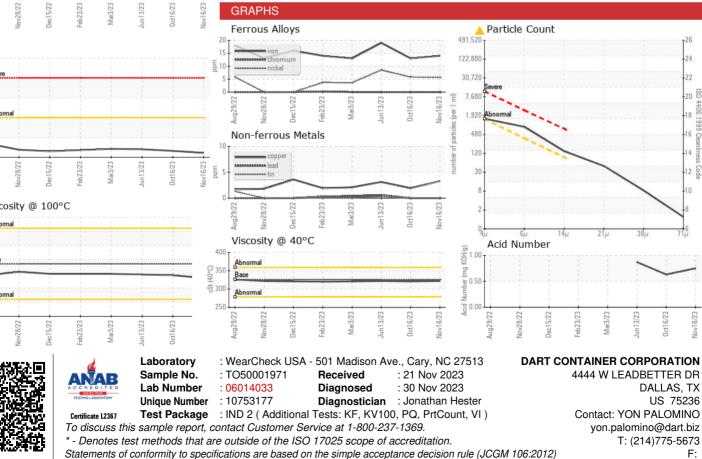
asimilied by. TON FALOWINO



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 | A MODER | A MODER |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | 🔺 MODER |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | 🔺 HAZY | HAZY | 🔺 HAZY |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | | 6.2% | NEG | NEG |
| Free Water | scalar | *Visual | | • 1.0 | NEG | NEG |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 326 | 322 | 321 | 322 |
| Visc @ 100°C | cSt | ASTM D445 | 33.4 | 31.4 | 31.8 | 31.9 |
| Viscosity Index (VI) | Scale | ASTM D2270 | 145 | 135 | 138 | 138 |
| SAMPLE IMAGES | 6 | method | limit/base | current | history1 | history2 |
| Color | | | | | | |
| | | | | | | |



Submitted By: YON PALOMINO