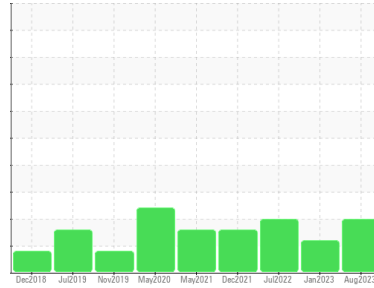




PROBLEM SUMMARY

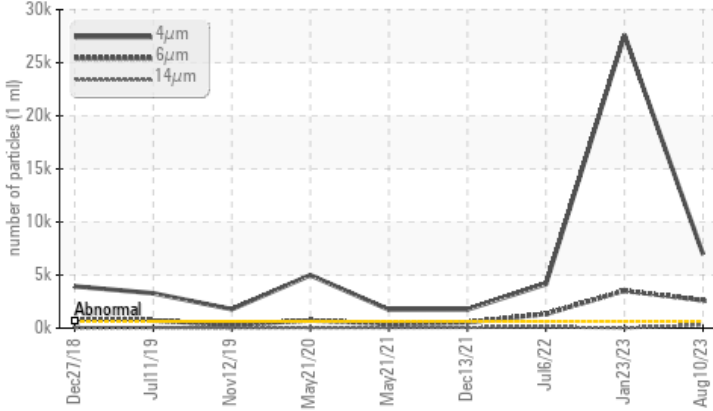
Area
North Plant-Crystallization
 Machine Id
PU-2513B
 Component
Lube System
 Fluid
ROYAL PURPLE SYNFILM GT 46 (20 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | ABNORMAL | ABNORMAL |
|-----------------|--------------|-----------|------------|------------|------------|
| Particles >4µm | ASTM D7647 | >640 | ▲ 6964 | ▲ 27607 | ▲ 4156 |
| Particles >6µm | ASTM D7647 | >160 | ▲ 2616 | ▲ 3526 | ▲ 1342 |
| Particles >14µm | ASTM D7647 | >40 | ▲ 300 | 22 | ▲ 106 |
| Particles >21µm | ASTM D7647 | >10 | ▲ 82 | 3 | ▲ 34 |
| Oil Cleanliness | ISO 4406 (c) | >16/14/12 | ▲ 20/19/15 | ▲ 22/19/12 | ▲ 19/18/14 |

Customer Id: AJIEDD
 Sample No.: WC0786784
 Lab Number: 05926127
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---------------|--------|------|---------|---------------------------------------------------------|
| Change Filter | --- | --- | ? | We recommend you service the filters on this component. |

HISTORICAL DIAGNOSIS

23 Jan 2023 Diag: Jonathan Hester

ISO



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 silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



06 Jul 2022 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



13 Dec 2021 Diag: Angela Borella

ISO



We recommend you service the filters on this component. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

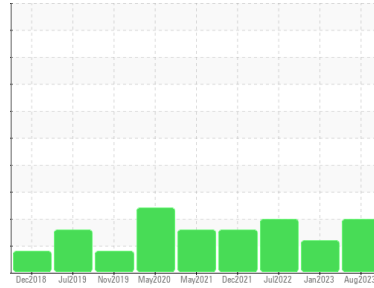
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
North Plant-Crystallization
 Machine Id
PU-2513B
 Component
Lube System
 Fluid
ROYAL PURPLE SYNFILM GT 46 (20 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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 INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0786784 | WC0765944 | WC0686399 |
| Sample Date | Client Info | | 10 Aug 2023 | 23 Jan 2023 | 06 Jul 2022 |
| 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 | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|------------|----------|----------|
| Iron | ppm | ASTM D5185m >20 | 2 | 2 | 2 |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >10 | 0 | 0 | <1 |
| Lead | ppm | ASTM D5185m >10 | 2 | 2 | 2 |
| Copper | ppm | ASTM D5185m >75 | 2 | 2 | 2 |
| Tin | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | --- | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m 0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m 95 | <1 | <1 | 2 |
| Calcium | ppm | ASTM D5185m 0 | 0 | <1 | 2 |
| Phosphorus | ppm | ASTM D5185m 0 | 16 | 19 | 19 |
| Zinc | ppm | ASTM D5185m 0 | 4 | 2 | 3 |
| Sulfur | ppm | ASTM D5185m 15000 | 19775 | 18165 | 20611 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >20 | 1 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m >20 | <1 | <1 | <1 |
| Water | % | ASTM D6304 >0.1 | 0.002 | 0.054 | 0.007 |
| ppm Water | ppm | ASTM D6304 >1000 | 24.6 | 540 | 76.8 |

FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-------------------|------------|------------|
| Particles >4µm | ASTM D7647 | >640 | ▲ 6964 | ▲ 27607 | ▲ 4156 |
| Particles >6µm | ASTM D7647 | >160 | ▲ 2616 | ▲ 3526 | ▲ 1342 |
| Particles >14µm | ASTM D7647 | >40 | ▲ 300 | 22 | ▲ 106 |
| Particles >21µm | ASTM D7647 | >10 | ▲ 82 | 3 | ▲ 34 |
| Particles >38µm | ASTM D7647 | >3 | 3 | 0 | 2 |
| Particles >71µm | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >16/14/12 | ▲ 20/19/15 | ▲ 22/19/12 | ▲ 19/18/14 |

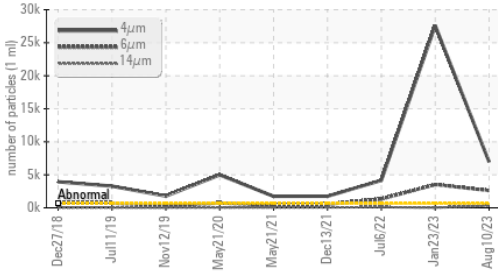
FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.36 | 0.35 | 0.35 |

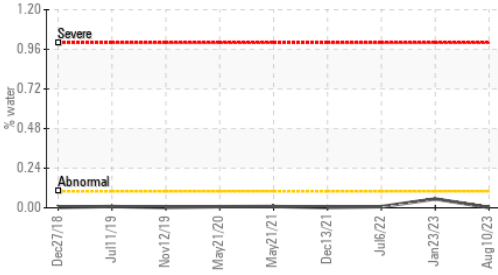


OIL ANALYSIS REPORT

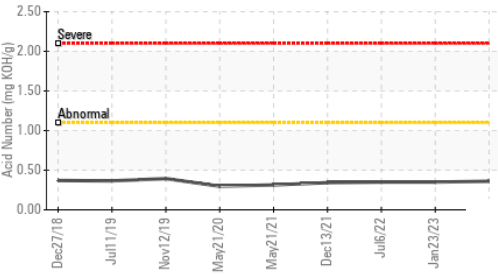
▲ Particle Trend



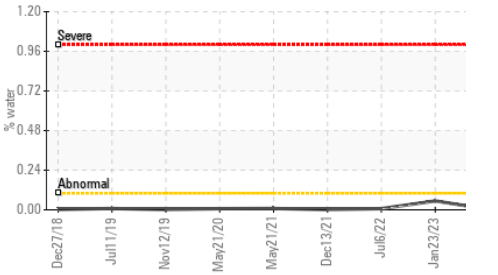
Water



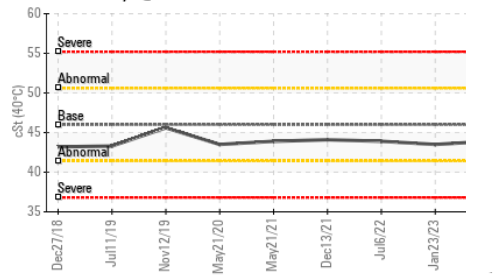
Acid Number



Water



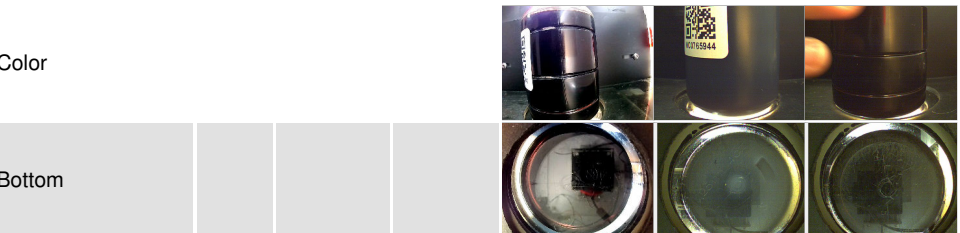
Viscosity @ 40°C



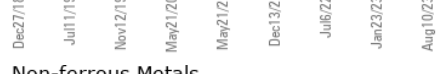
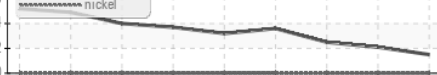
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE |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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 46.0 | 43.5 | 43.9 |

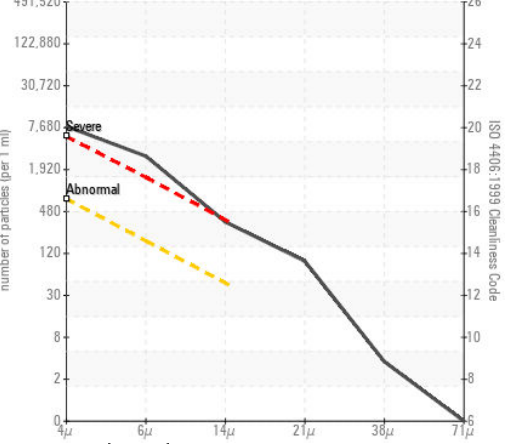
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



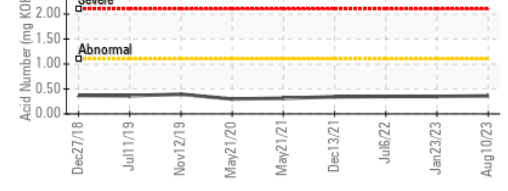
GRAPHS



▲ Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0786784
Lab Number : 05926127
Unique Number : 10606074
Test Package : PLANT
Received : 16 Aug 2023
Diagnosed : 17 Aug 2023
Diagnostician : Doug Bogart

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 1116 HWY 137
 EDDYVILLE, IA
 US 52553
 Contact: Alan Brittain
 brittaina@ajiusa.com
 T: (641)295-0086
 F:

Certificate L2367
 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)