



PROBLEM SUMMARY

Sample Rating Trend

WATER



Area
[FARMWELD]

Machine Id
BIG

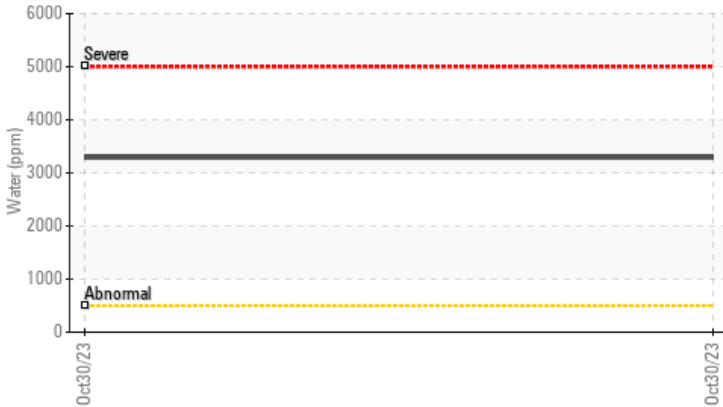
Component
Hydraulic System

Fluid
CASTROL HYSPIN AWS HYDRAULIC 46 (300 GAL)



COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

We advise that you check for the source of water entry. 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. There is too much water present in this sample to perform a particle count.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | SEVERE | --- | --- |
|------------------|--------|------------|-------|------------------|-----|-----|
| Water | % | ASTM D6304 | >0.05 | ▲ 0.329 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ 3290 | --- | --- |
| Silt | scalar | *Visual | NONE | ▲ MODER | --- | --- |
| Appearance | scalar | *Visual | NORML | ▲ LAYRD | --- | --- |
| Emulsified Water | scalar | *Visual | >0.05 | ▲ 0.2% | --- | --- |
| Free Water | scalar | *Visual | | ● >10% | --- | --- |

Customer Id: NEUBOS
Sample No.: WC0877003
Lab Number: 05995549
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

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

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. |
| Check Water Access | --- | --- | ? | We advise that you check for the source of water entry. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
[FARMWELD]
 Machine Id
BIG
 Component
Hydraulic System
 Fluid
CASTROL HYSPIIN AWS HYDRAULIC 46 (300 GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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. There is too much water present in this sample to perform a particle count.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Excessive free water present.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC0877003 | --- | --- |
| Sample Date | Client Info | | 30 Oct 2023 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | SEVERE | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >20 | 4 | --- | --- |
| Chromium | ppm | ASTM D5185m >20 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m >20 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >20 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m >20 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m >20 | 19 | --- | --- |
| Tin | ppm | ASTM D5185m >20 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | <1 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 1 | --- | --- |
| Calcium | ppm | ASTM D5185m | 43 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 325 | --- | --- |
| Zinc | ppm | ASTM D5185m | 400 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 800 | --- | --- |

CONTAMINANTS

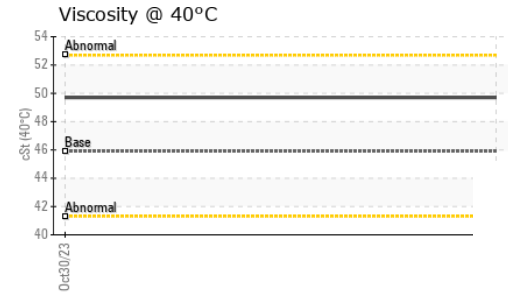
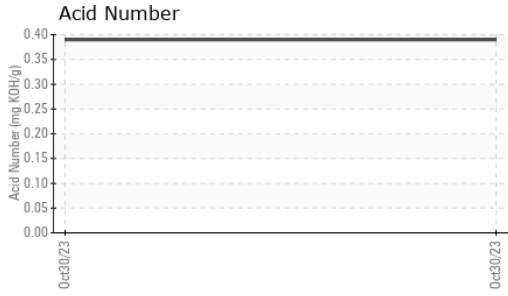
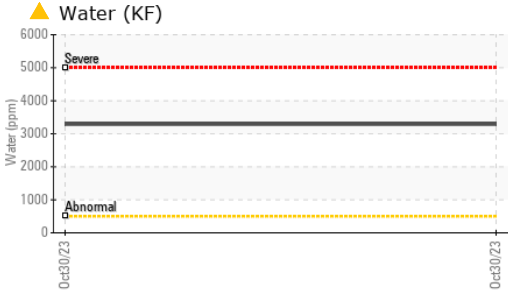
| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m >15 | 1 | --- | --- |
| Sodium | ppm | ASTM D5185m | 0 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | <1 | --- | --- |
| Water | % | ASTM D6304 >0.05 | ▲ 0.329 | --- | --- |
| ppm Water | ppm | ASTM D6304 >500 | ▲ 3290 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.39 | --- | --- |




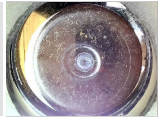
OIL ANALYSIS REPORT



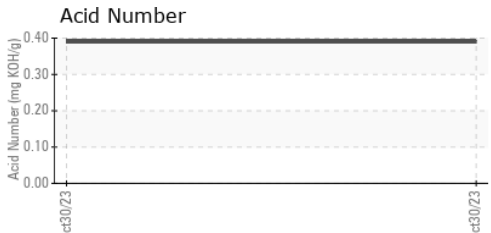
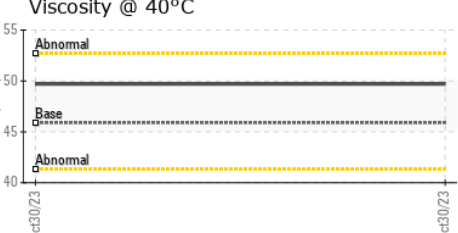
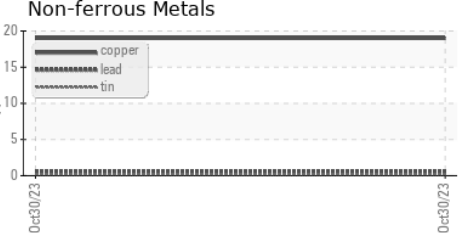
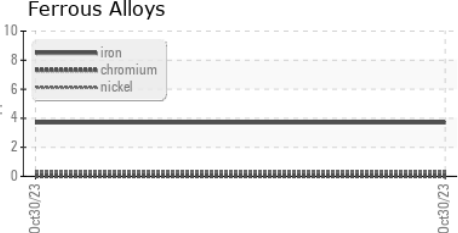
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- | --- |
| Silt | scalar | *Visual | NONE | ▲ MODER | --- | --- |
| Debris | scalar | *Visual | NONE | ▲ LIGHT | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | ▲ LAYRD | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.05 | ▲ 0.2% | --- | --- |
| Free Water | scalar | *Visual | | ◆ >10% | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| Visc @ 40°C | cSt | ASTM D445 | 45.89 | 49.7 | --- | --- |

SAMPLE IMAGES

| method | limit/base | current | history1 | history2 |
|--------|------------|---|----------|----------|
| Color | |  | no image | no image |
| Bottom | |  | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0877003 **Received** : 01 Nov 2023
Lab Number : 05995549 **Diagnosed** : 03 Nov 2023
Unique Number : 10723909 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)