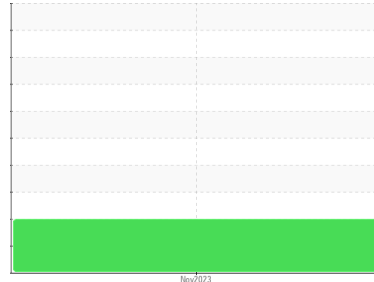




PROBLEM SUMMARY

Sample Rating Trend

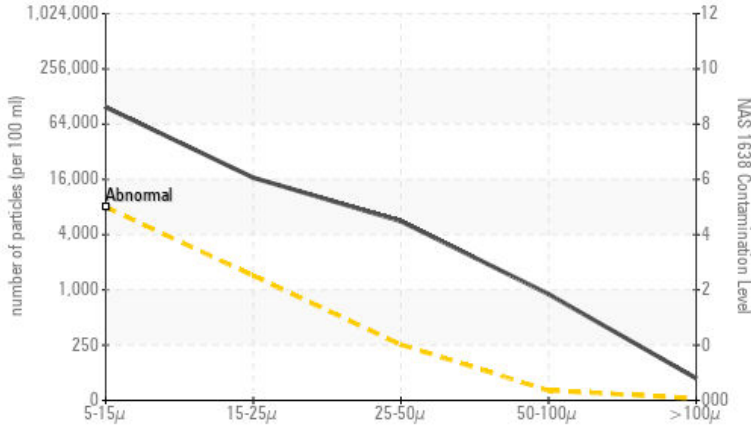
ISO



Area
37862 TRACE PO 36880 [37862]
 Machine Id
EGWTS0001-11202023B
 Component
Hydraulic System
 Fluid
WC171088 ETHYLENE GLYCOL (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Count



RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | --- | --- |
|--------------------|-------|-----------|-------|----------|-----|-----|
| Particles 5-15µm | count | *NAS 1638 | >8000 | ▲ 98100 | --- | --- |
| Particles 15-25µm | count | *NAS 1638 | >1425 | ▲ 16700 | --- | --- |
| Particles 25-50µm | count | *NAS 1638 | >253 | ▲ 5600 | --- | --- |
| Particles 50-100µm | count | *NAS 1638 | >45 | ▲ 900 | --- | --- |
| Particles >100µm | count | *NAS 1638 | >8 | ▲ 100 | --- | --- |

Customer Id: RIDHAM
 Sample No.: WC06015987
 Lab Number: 06015987
 Test Package: IND 2



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

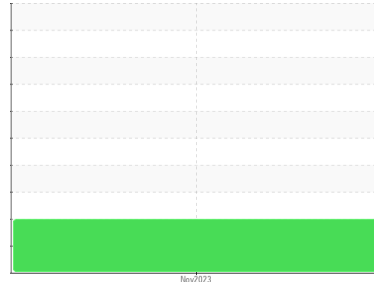
| Action | Status | Date | Done By | Description |
|---------------|--------|------|---------|--------------------------------------------------------------------------------------------------------------------------|
| Change Filter | --- | --- | ? | We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. |
| Filter Fluid | --- | --- | ? | We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
37862 TRACE PO 36880 [37862]
 Machine Id
EGWTS0001-11202023B
 Component
Hydraulic System
 Fluid
WC171088 ETHYLENE GLYCOL (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

Wear

All metal levels are normal indicating no corrosion in the cooling system.

Contamination

There is a high amount of particulates present in the oil. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code.

Fluid Condition

The pH level of this fluid is within the acceptable limits. Glycol and nitrite levels are acceptable.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|------------------|--------------------|----------|----------|
| Sample Number | Client Info | WC06015987 | --- | --- |
| Sample Date | Client Info | 21 Nov 2023 | --- | --- |
| Machine Age | mths Client Info | 0 | --- | --- |
| Oil Age | mths Client Info | 0 | --- | --- |
| Oil Changed | Client Info | N/A | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------|-----------------|--------------|----------|----------|
| Iron ppm | ASTM D5185m >20 | 0 | --- | --- |
| Aluminum ppm | ASTM D5185m >20 | <1 | --- | --- |
| Lead ppm | ASTM D5185m >20 | <1 | --- | --- |
| Copper ppm | ASTM D5185m >20 | <1 | --- | --- |
| Tin ppm | ASTM D5185m >20 | 1 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|----------------|-------------|--------------|----------|----------|
| Boron ppm | ASTM D5185m | 0 | --- | --- |
| Molybdenum ppm | ASTM D5185m | 0 | --- | --- |
| Magnesium ppm | ASTM D5185m | 7 | --- | --- |
| Calcium ppm | ASTM D5185m | 2 | --- | --- |
| Phosphorus ppm | ASTM D5185m | 2624 | --- | --- |
| Zinc ppm | ASTM D5185m | <1 | --- | --- |
| Sulfur ppm | ASTM D5185m | 48 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------|------------------|---------------|----------|----------|
| Silicon ppm | ASTM D5185m >15 | 0 | --- | --- |
| Sodium ppm | ASTM D5185m | 175 | --- | --- |
| Potassium ppm | ASTM D5185m >20 | 7119 | --- | --- |
| Chlorine ppm | ASTM D5185m | 8 | --- | --- |
| Water % | ASTM D6304 >0.05 | 35.0 | --- | --- |
| ppm Water | ASTM D6304 >500 | 350000 | --- | --- |

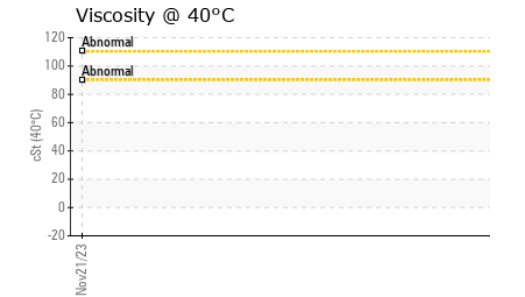
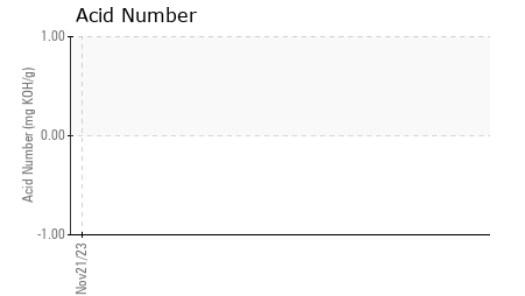
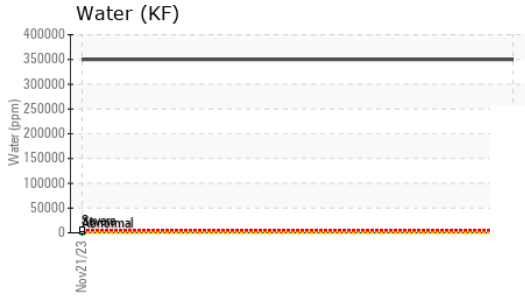
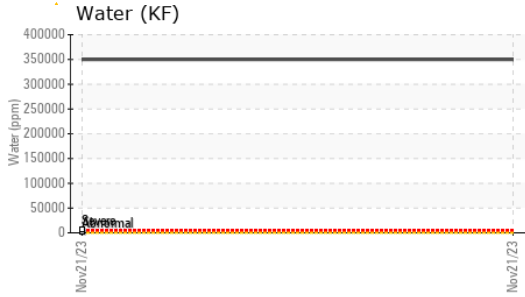
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|--------------------|-----------------------|----------------|----------|----------|
| Particles 5-15µm | count *NAS 1638 >8000 | ▲ 98100 | --- | --- |
| Particles 15-25µm | count *NAS 1638 >1425 | ▲ 16700 | --- | --- |
| Particles 25-50µm | count *NAS 1638 >253 | ▲ 5600 | --- | --- |
| Particles 50-100µm | count *NAS 1638 >45 | ▲ 900 | --- | --- |
| Particles >100µm | count *NAS 1638 >8 | ▲ 100 | --- | --- |
| NAS 1638 | Class *NAS 1638 >5 | 10 | --- | --- |

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 | NONE | --- | --- |
| Debris | scalar *Visual NONE | NONE | --- | --- |
| Sand/Dirt | scalar *Visual NONE | NONE | --- | --- |
| Appearance | scalar *Visual NORML | NORML | --- | --- |
| Odor | scalar *Visual NORML | NORML | --- | --- |
| Emulsified Water | scalar *Visual >0.05 | NEG | --- | --- |
| Free Water | scalar *Visual | NEG | --- | --- |

OIL ANALYSIS REPORT



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06015987 **Received** : 22 Nov 2023
Lab Number : 06015987 **Diagnosed** : 13 Dec 2023
Unique Number : 10755131 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PH, PrtCountNAS)

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)

RIDGE ENGINEERING
 3987 HAMPSTEAD-MEXICO RD
 HAMPSTEAD, MD
 US 21074
 Contact: BETHANY HUGHES*
 bethany@ridgeeng.com

T:
F:

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
|------------------|--------|------------|---------|----------|----------|

| | | | | | |
|----|------------|------------|-------------|-----|-----|
| pH | Scale 0-14 | ASTM D1287 | 7.88 | --- | --- |
|----|------------|------------|-------------|-----|-----|

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

| | | | | | |
|--------|--|--|--|----------|----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

| GRAPHS |
|--------|
|--------|

