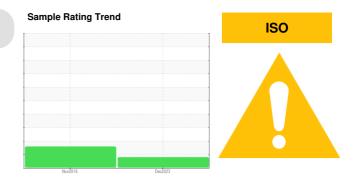


PROBLEM SUMMARY

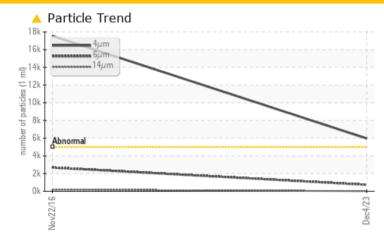
(ZONE3) BRUCE A/1/34720 Machine Id 1-34720-P2-PM Up Brg

Upper Bearing

ESSO NUTO H ISO 46 (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

| PROBLEMATIC TE | ST RESULTS | | | | |
|-----------------|--------------|-----------|-----------------|----------------|--|
| Sample Status | | | ATTENTION | ATTENTION | |
| Particles >4µm | ASTM D7647 | >5000 | 5959 | <u>▲</u> 17555 | |
| Oil Cleanliness | ISO 4406 (c) | >19/17/15 | 20/17/10 | 21/19/15 | |

Customer Id: BRUTIV Sample No.: WC0871703 Lab Number: 02603834 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

| RECOMMENDED A | RECOMMENDED ACTIONS | | | | | |
|----------------------|---------------------|------|---------|---|--|--|
| Action | Status | Date | Done By | Description | | |
| Change Filter | | | ? | We recommend you service the filters on this component. | | |
| Information Required | | | ? | NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample | | |

HISTORICAL DIAGNOSIS

22 Nov 2016 Diag: Wes Davis



We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



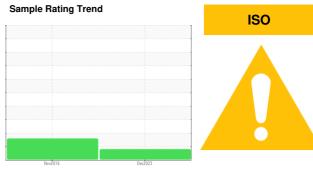


OIL ANALYSIS REPORT

(ZONE3) BRUCE A/1/34720 1-34720-P2-PM Up Brg

Upper Bearing

ESSO NUTO H ISO 46 (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

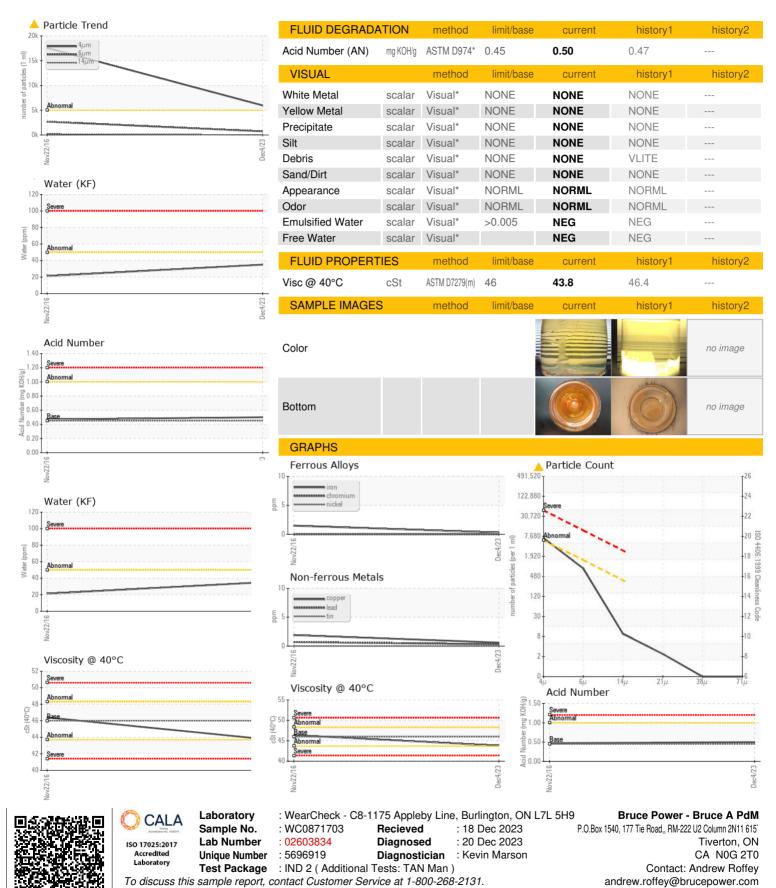
Fluid Condition

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

| | | | Nov2016 | Dec2023 | | |
|--|--------|--|---------------|-------------|-----------------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0871703 | WC2212154 | |
| Sample Date | | Client Info | | 04 Dec 2023 | 22 Nov 2016 | |
| Machine Age | hrs | Client Info | | 0 | 0 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | N/A | N/A | |
| Sample Status | | | | ATTENTION | ATTENTION | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >10 | <1 | 2 | |
| Chromium | ppm | ASTM D5185(m) | >5 | 0 | 0 | |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | 0 | |
| Titanium | ppm | ASTM D5185(m) | >5 | 0 | 0 | |
| Silver | ppm | ASTM D5185(m) | | <1 | 0 | |
| Aluminum | ppm | ASTM D5185(m) | >5 | 0 | <1 | |
| Lead | ppm | ASTM D5185(m) | >5 | <1 | <1 | |
| Copper | ppm | ASTM D5185(m) | >5 | <1 | 2 | |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 | |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | <1 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | 0 | <1 | 0 | |
| Barium | ppm | ASTM D5185(m) | 0 | <1 | <1 | |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 | |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | |
| Magnesium | ppm | ASTM D5185(m) | 5 | 0 | 0 | |
| Calcium | ppm | ASTM D5185(m) | 50 | 59 | 39 | |
| Phosphorus | ppm | ASTM D5185(m) | 330 | 347 | 304 | |
| Zinc | ppm | ASTM D5185(m) | 410 | 456 | 423 | |
| Sulfur | ppm | ASTM D5185(m) | 2700 | 5768 | 2316 | |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | |
| CONTAMINANTS | 3 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >5 | 0 | <1 | |
| Sodium | ppm | ASTM D5185(m) | >5 | 0 | 1 | |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | |
| Water | % | ASTM D6304* | >0.005 | 0.003 | 0.002 | |
| ppm Water | ppm | ASTM D6304* | >50 | 35 | 21.3 | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 5959 | <u> </u> | |
| ranticles >4µm | | 710 HW D70 H | | | | |
| Particles >6µm | | ASTM D7647 | >1300 | 730 | <u>▲</u> 2682 | |
| <u>'</u> | | | >1300 >320 | 730 8 | ▲ 2682 ▲ 189 | |
| Particles >6µm | | ASTM D7647 | | | | |
| Particles >6μm Particles >14μm | | ASTM D7647 ASTM D7647 | >320 | 8 | ▲ 189 | |
| Particles >6µm Particles >14µm Particles >21µm | | ASTM D7647 ASTM D7647 ASTM D7647 | >320 >80 | 8 2 | ▲ 189 41 | |



OIL ANALYSIS REPORT



Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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