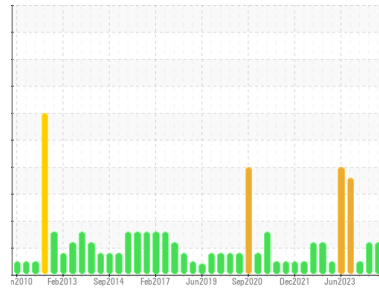




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
BRUCE A/4/43230
 Machine Id
4-43230-P3-BFP Tank Vent
 Component
Bulk Fluid Tank
 Fluid
MOBIL DTE 732 (--- 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 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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0871708 | WC0871644 | WC0815675 |
| Sample Date | Client Info | | 21 May 2024 | 27 Feb 2024 | 29 Aug 2023 |
| Machine Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | ATTENTION | ABNORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >10 | 0 | 0 | <1 |
| Chromium | ppm | ASTM D5185(m) >5 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >5 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) >5 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >5 | 0 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) >5 | 1 | <1 | 3 |
| Copper | ppm | ASTM D5185(m) >5 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) >5 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | <1 | 0 | <1 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185(m) | <1 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185(m) | <1 | 0 | <1 |
| Zinc | ppm | ASTM D5185(m) | <1 | <1 | 2 |
| Sulfur | ppm | ASTM D5185(m) | 15 | <1 | 29 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

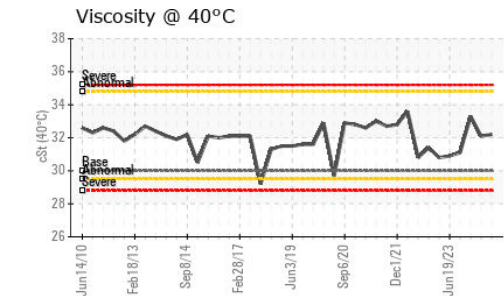
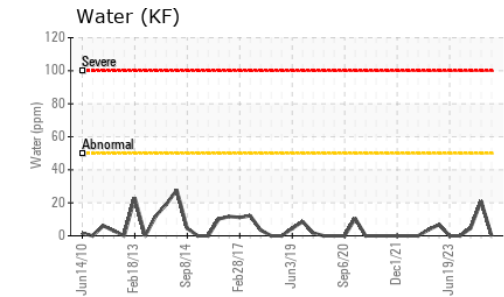
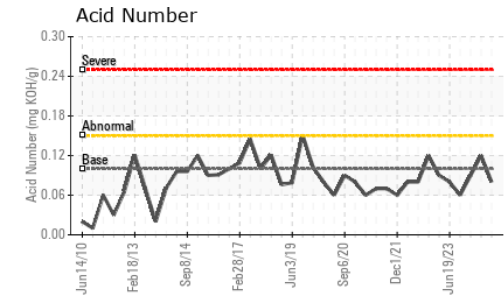
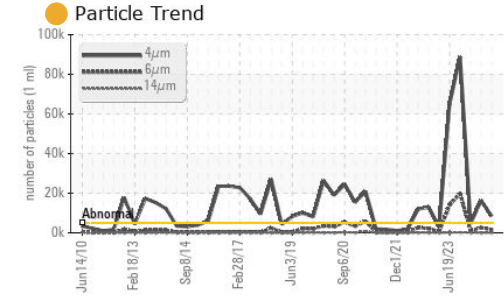
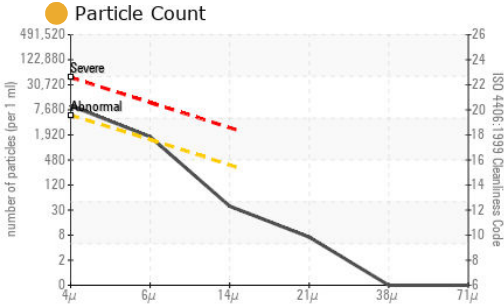
| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >5 | 2 | <1 | 3 |
| Sodium | ppm | ASTM D5185(m) >5 | 0 | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | <1 | <1 |
| Water | % | ASTM D6304* >0.005 | 0.000 | 0.002 | 0.001 |
| ppm Water | ppm | ASTM D6304* >50 | 0 | 21 | 4.6 |

FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|------------|----------|
| Particles >4µm | ASTM D7647 | >5000 | 8444 | ▲ 16228 | 4757 |
| Particles >6µm | ASTM D7647 | >1300 | 1520 | ▲ 2591 | 1066 |
| Particles >14µm | ASTM D7647 | >320 | 33 | 60 | 110 |
| Particles >21µm | ASTM D7647 | >80 | 6 | 7 | 29 |
| Particles >38µm | ASTM D7647 | >20 | 0 | 0 | 1 |
| Particles >71µm | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >19/17/15 | 20/18/12 | ▲ 21/19/13 | 19/17/14 |



OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0871708
Lab Number : 02645506
Unique Number : 5803045
Test Package : IND 2 (Additional Tests: TAN Man)

Bruce Power - Bruce A PdM
 P.O.Box 1540, 177 Tie Road., RM-222 U2 Column 2N11 615'
 Tiverton, ON
 CA N0G 2T0

*To discuss this sample report, contact Customer Service at 1-800-268-2131.
 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.*

Contact: Pierre Adouki
 pierre.adouki@brucepower.com
 T: (519)361-2673
 F:

| FLUID DEGRADATION | method | limit/base | current | history1 | history2 | |
|-------------------|----------|------------|---------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.10 | 0.08 | 0.12 | 0.09 |

| 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 | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.005 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 30.0 | 32.2 | 32.1 | 33.3 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |
| PrtFilter | | | | | |

