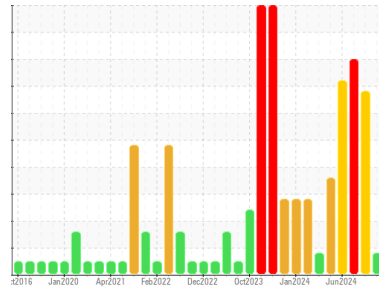




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

MELT SHOP - BAGHOUSE FANS

Machine Id

M/S BAGHOUSE FAN 151B M/S (S/N 15-6400-2000-1010)

Component

Inboard Journal Bearing

Fluid

AW HYDRAULIC OIL ISO 100 (3 LTR)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The iron level has decreased, but is still abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination 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 | RP0044101 | RP0044194 | RP0044091 |
| Sample Date | Client Info | 24 Jun 2024 | 14 Jun 2024 | 10 Jun 2024 |
| Machine Age | hrs | Client Info | 0 | 0 |
| Oil Age | hrs | Client Info | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | ABNORMAL | SEVERE | SEVERE |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|----------|------------|------------------|-------------|----------|
| PQ | ASTM D8184 | 28 | 63 | ▲ 83 |
| Iron | ppm | ASTM D5185m >60 | ▲ 85 | ▲ 395 |
| Chromium | ppm | ASTM D5185m >20 | <1 | 2 |
| Nickel | ppm | ASTM D5185m >20 | <1 | 2 |
| Titanium | ppm | ASTM D5185m | <1 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >4 | <1 | <1 |
| Lead | ppm | ASTM D5185m >250 | 0 | 0 |
| Copper | ppm | ASTM D5185m >125 | <1 | 2 |
| Tin | ppm | ASTM D5185m >80 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|------------|------------|-----------------|------------|----------|
| Boron | ppm | ASTM D5185m 5 | 0 | 1 |
| Barium | ppm | ASTM D5185m 5 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 5 | 13 | 34 |
| Manganese | ppm | ASTM D5185m | 1 | 4 |
| Magnesium | ppm | ASTM D5185m 25 | <1 | 2 |
| Calcium | ppm | ASTM D5185m 200 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m 300 | 494 | 504 |
| Zinc | ppm | ASTM D5185m 370 | 0 | 0 |

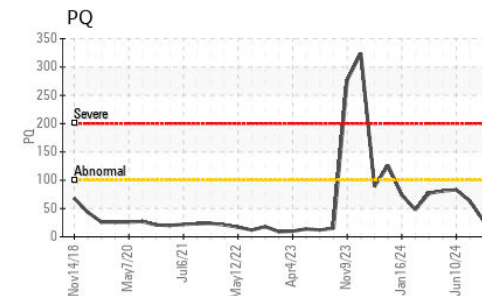
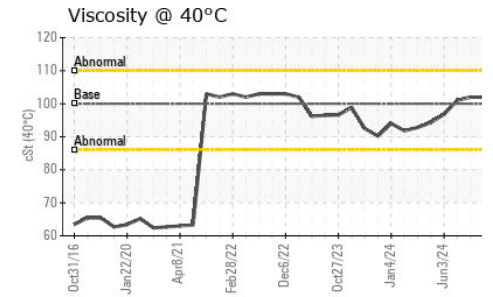
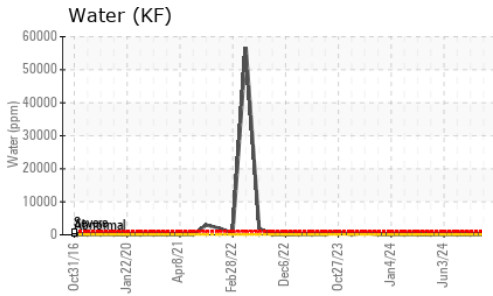
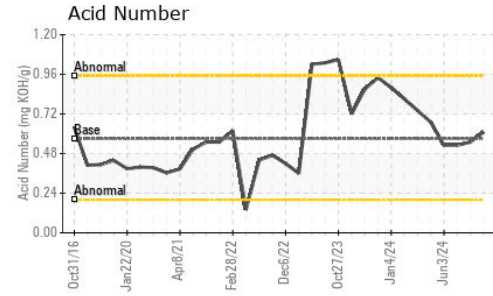
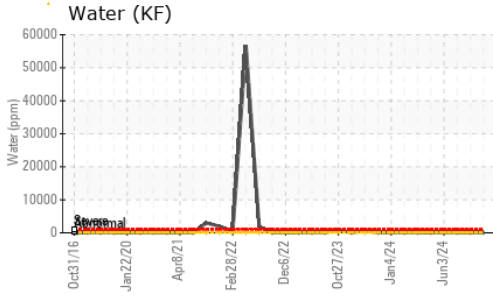
CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|-----------|------------|-----------------|--------------|----------|
| Silicon | ppm | ASTM D5185m >50 | <1 | 3 |
| Sodium | ppm | ASTM D5185m | 1 | 2 |
| Potassium | ppm | ASTM D5185m >20 | 1 | 3 |
| Water | % | ASTM D6304 >2 | 0.003 | 0.003 |
| ppm Water | ppm | ASTM D6304 | 30 | 38 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|------------------|------------|-----------------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.57 | 0.61 | 0.55 |

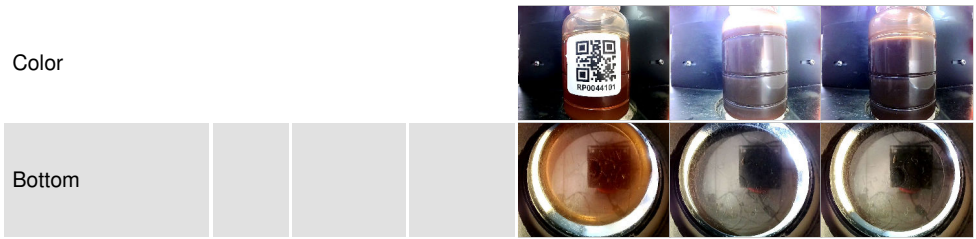
OIL ANALYSIS REPORT



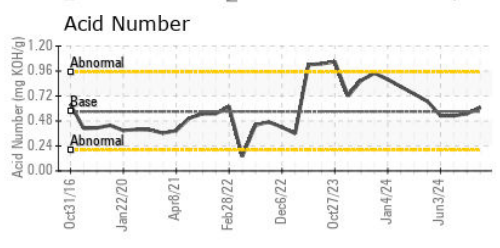
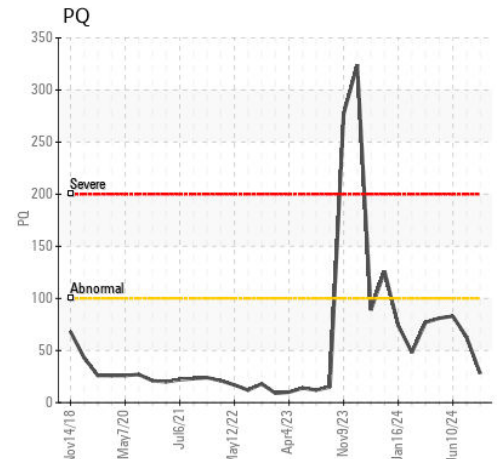
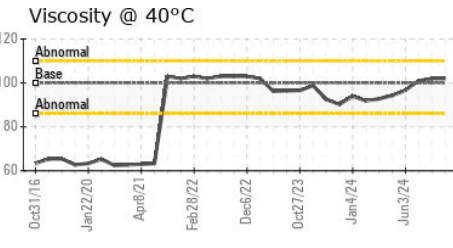
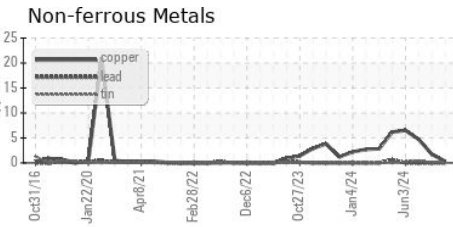
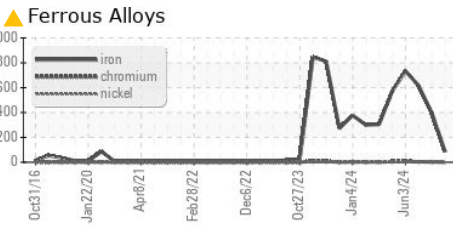
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | ▲ MODER | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >2 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 100 | 102 | 101 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0044101 **Received** : 25 Jun 2024
Lab Number : 06219778 **Tested** : 26 Jun 2024
Unique Number : 11097975 **Diagnosed** : 26 Jun 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: PQ)

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 F: x:

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)