



PROBLEM SUMMARY

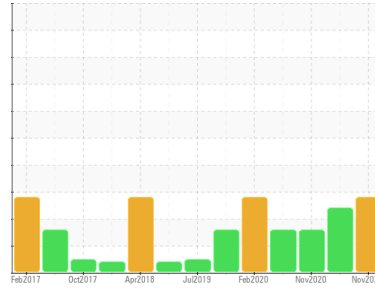
Sample Rating Trend

DEGRADATION



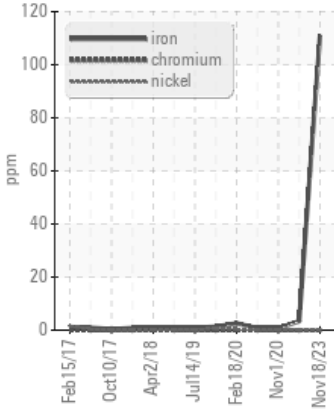
Machine Id
SULLAIR BOX SHOP (S/N 003-120654)

Component
Compressor
Fluid
{not provided} (--- GAL)

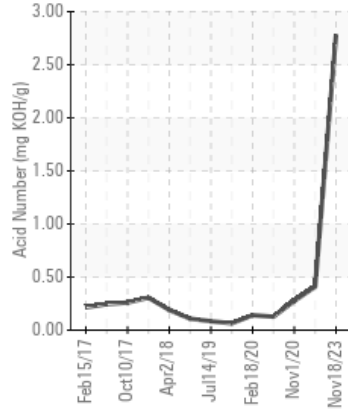


COMPONENT CONDITION SUMMARY

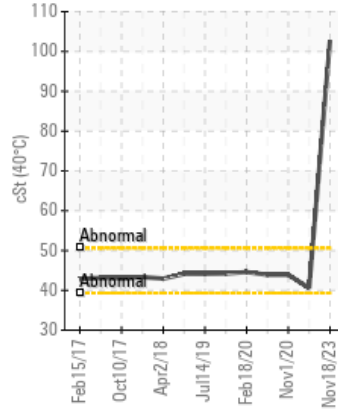
▲ Ferrous Alloys



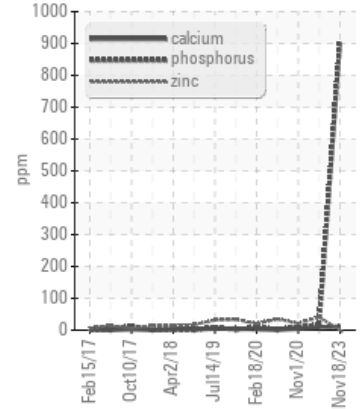
▲ Acid Number



▲ Viscosity @ 40°C



▲ Additives



RECOMMENDATION

We advise an early resample to confirm this situation.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | ABNORMAL | MARGINAL |
|------------------|----------|-----------------|----------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | ▲ 111 | 3 | <1 |
| Phosphorus | ppm | ASTM D5185m | ▲ 910 | 19 | 8 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | ▲ 2.78 | 0.41 | 0.275 |
| Visc @ 40°C | cSt | ASTM D445 | ▲ 102.7 | 40.6 | 43.9 |

Customer Id: JBSBEA
Sample No.: USPM31296
Lab Number: 06010890
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 |
|----------|--------|------|---------|--|
| Resample | --- | --- | ? | We advise an early resample to confirm this situation. |

HISTORICAL DIAGNOSIS

13 Jul 2023 Diag: Doug Bogart

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



01 Nov 2020 Diag: Doug Bogart

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



31 May 2020 Diag: Doug Bogart

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

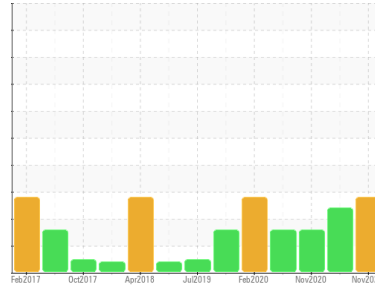
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
SULLAIR BOX SHOP (S/N 003-120654)

Component
Compressor
Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise an early resample to confirm this situation.

▲ Wear

The iron level is abnormal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

▲ Fluid Condition

An increase in the AN level is noted. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | USPM31296 | USPM27405 | USPM5105654 |
| Sample Date | Client Info | 18 Nov 2023 | 13 Jul 2023 | 01 Nov 2020 |
| 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 | ABNORMAL | MARGINAL |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|-----------------|--------------|----------|----|
| Iron | ppm | ASTM D5185m >50 | ▲ 111 | 3 | <1 |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m >25 | 4 | <1 | 0 |
| Lead | ppm | ASTM D5185m >25 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m >50 | 0 | 1 | <1 |
| Tin | ppm | ASTM D5185m >15 | 1 | <1 | <1 |
| Antimony | ppm | ASTM D5185m | --- | --- | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | <1 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|-------------|--------------|----------|-----|
| Boron | ppm | ASTM D5185m | 17 | 0 | 2 |
| Barium | ppm | ASTM D5185m | 0 | 739 | 361 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | <1 | 4 | <1 |
| Calcium | ppm | ASTM D5185m | 11 | 8 | 4 |
| Phosphorus | ppm | ASTM D5185m | ▲ 910 | 19 | 8 |
| Zinc | ppm | ASTM D5185m | 0 | 41 | 21 |
| Sulfur | ppm | ASTM D5185m | 17 | 460 | 308 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|------------------|--------------|-----------------|-----------------|
| Silicon | ppm | ASTM D5185m >25 | 6 | 2 | <1 |
| Sodium | ppm | ASTM D5185m | 4 | 132 | 170 |
| Potassium | ppm | ASTM D5185m >20 | 0 | 8 | 2 |
| Water | % | ASTM D6304 >0.1 | 0.060 | ▲ 0.473 | ▲ 0.253 |
| ppm Water | ppm | ASTM D6304 >1000 | 608.6 | ▲ 4734.1 | ▲ 2539.4 |

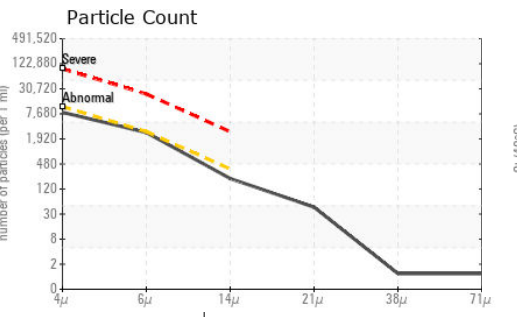
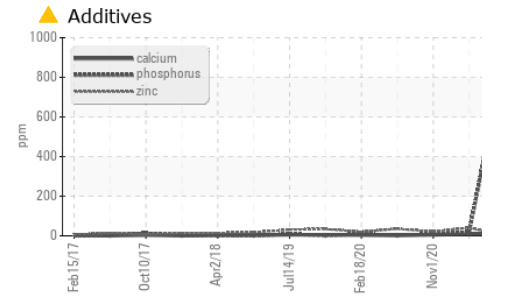
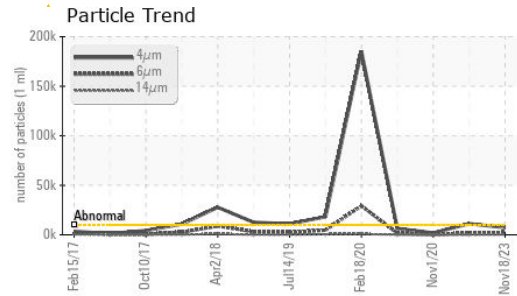
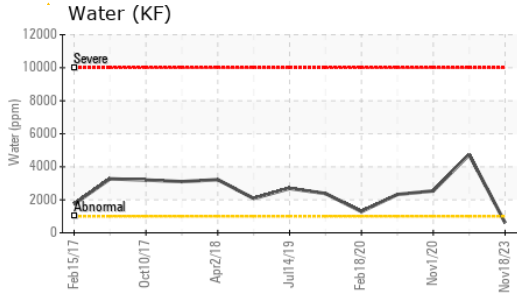
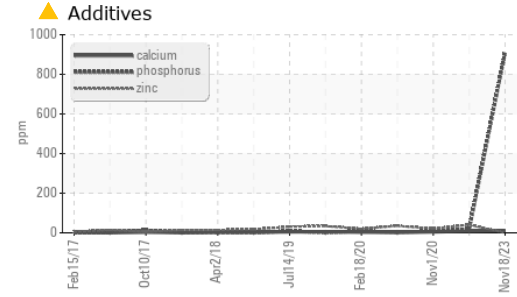
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-----------------|-------------------|----------|
| Particles >4µm | ASTM D7647 >10000 | 7279 | ▲ 11259 | 1913 |
| Particles >6µm | ASTM D7647 >2500 | 2389 | 2050 | 165 |
| Particles >14µm | ASTM D7647 >320 | 189 | 89 | 6 |
| Particles >21µm | ASTM D7647 >80 | 39 | 18 | 2 |
| Particles >38µm | ASTM D7647 >20 | 1 | 0 | 0 |
| Particles >71µm | ASTM D7647 >4 | 1 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) >20/18/15 | 20/18/15 | ▲ 21/18/14 | 18/15/10 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|------------|---------------|----------|-------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | ▲ 2.78 | 0.41 | 0.275 |

OIL ANALYSIS REPORT

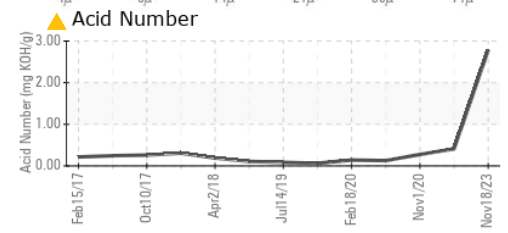
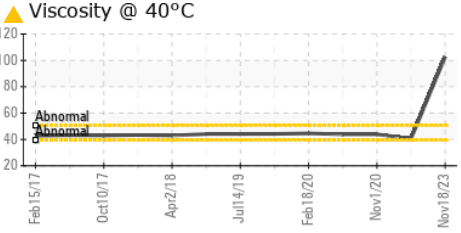
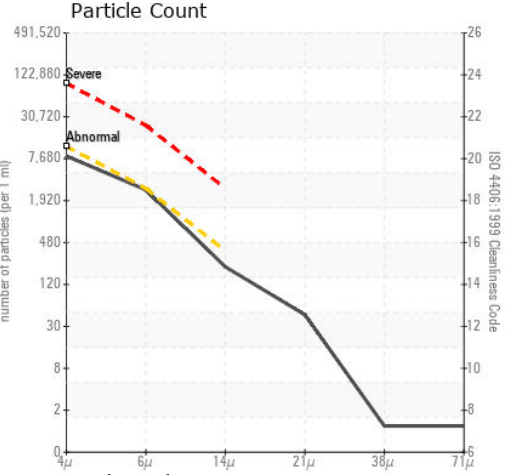
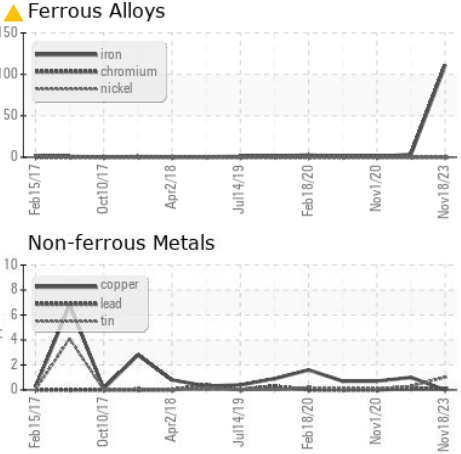


| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | ▲ 102.7 | 40.6 | 43.9 |

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM31296 **Received** : 17 Nov 2023
Lab Number : 06010890 **Diagnosed** : 22 Nov 2023
Unique Number : 10750034 **Diagnostician** : Doug Bogart
Test Package : IND 2

JBS - BEARDSTOWN
 8295 ARENZVILLE RD
 BEARDSTOWN, IL
 US 62618
 Contact:

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)

T:
F: