



PROBLEM SUMMARY

Sample Rating Trend



ISO



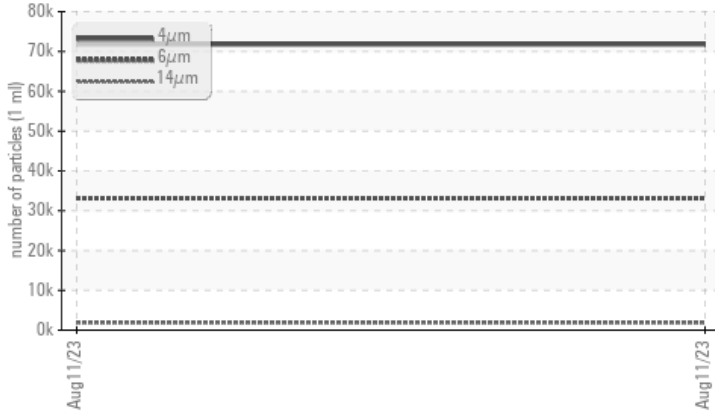
Machine Id
KAESER 8642481

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | --- | --- |
|-----------------|--------------|-----------|-------------------|-----|-----|
| Particles >6µm | ASTM D7647 | >1300 | ▲ 33137 | --- | --- |
| Particles >14µm | ASTM D7647 | >80 | ▲ 1855 | --- | --- |
| Particles >21µm | ASTM D7647 | >20 | ▲ 320 | --- | --- |
| Particles >38µm | ASTM D7647 | >4 | ▲ 10 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ 23/22/18 | --- | --- |

Customer Id: BETBETPA
Sample No.: KC108953
Lab Number: 05937236
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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 Fluid | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |
| Change Filter | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER 8642481
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of particulates present 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 | KC108953 | --- | --- |
| Sample Date | Client Info | 11 Aug 2023 | --- | --- |
| Machine Age | hrs Client Info | 288 | --- | --- |
| Oil Age | hrs Client Info | 288 | --- | --- |
| Oil Changed | Client Info | Changed | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------------------|------------|--------------|----------|----------|
| Iron ppm ASTM D5185m | >50 | <1 | --- | --- |
| Chromium ppm ASTM D5185m | >10 | <1 | --- | --- |
| Nickel ppm ASTM D5185m | >3 | 0 | --- | --- |
| Titanium ppm ASTM D5185m | >3 | <1 | --- | --- |
| Silver ppm ASTM D5185m | >2 | 0 | --- | --- |
| Aluminum ppm ASTM D5185m | >10 | <1 | --- | --- |
| Lead ppm ASTM D5185m | >10 | <1 | --- | --- |
| Copper ppm ASTM D5185m | >50 | <1 | --- | --- |
| Tin ppm ASTM D5185m | >10 | <1 | --- | --- |
| Vanadium ppm ASTM D5185m | | <1 | --- | --- |
| Cadmium ppm ASTM D5185m | | <1 | --- | --- |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|----------------------------|------------|--------------|----------|----------|
| Boron ppm ASTM D5185m | | 0 | --- | --- |
| Barium ppm ASTM D5185m | 90 | 68 | --- | --- |
| Molybdenum ppm ASTM D5185m | | 0 | --- | --- |
| Manganese ppm ASTM D5185m | | <1 | --- | --- |
| Magnesium ppm ASTM D5185m | 90 | 81 | --- | --- |
| Calcium ppm ASTM D5185m | 2 | 1 | --- | --- |
| Phosphorus ppm ASTM D5185m | | 4 | --- | --- |
| Zinc ppm ASTM D5185m | | 15 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------------------|------------|--------------|----------|----------|
| Silicon ppm ASTM D5185m | >25 | <1 | --- | --- |
| Sodium ppm ASTM D5185m | | 7 | --- | --- |
| Potassium ppm ASTM D5185m | >20 | 3 | --- | --- |
| Water % ASTM D6304 | >0.05 | 0.034 | --- | --- |
| ppm Water ppm ASTM D6304 | >500 | 344.1 | --- | --- |

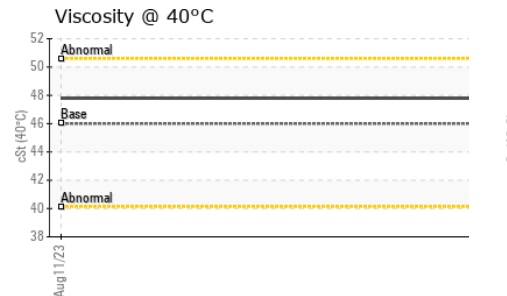
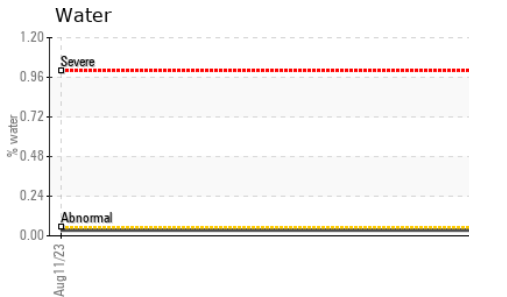
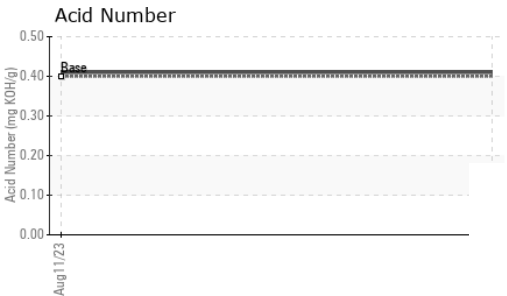
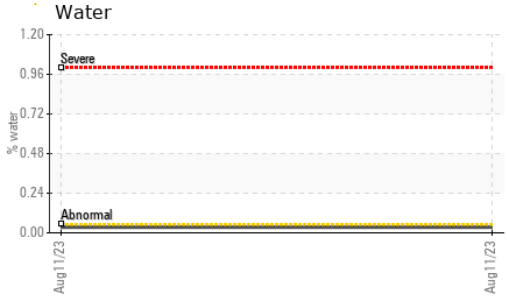
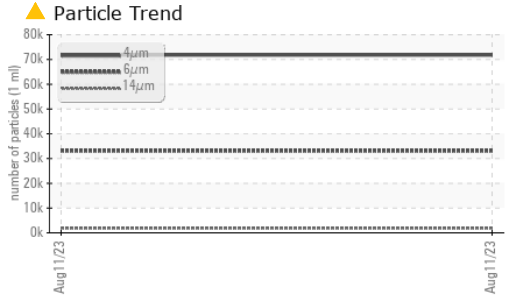
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|------------------------------|------------|-------------------|----------|----------|
| Particles >4µm ASTM D7647 | | 71803 | --- | --- |
| Particles >6µm ASTM D7647 | >1300 | ▲ 33137 | --- | --- |
| Particles >14µm ASTM D7647 | >80 | ▲ 1855 | --- | --- |
| Particles >21µm ASTM D7647 | >20 | ▲ 320 | --- | --- |
| Particles >38µm ASTM D7647 | >4 | ▲ 10 | --- | --- |
| Particles >71µm ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness ISO 4406 (c) | >--/17/13 | ▲ 23/22/18 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|--------------------------------------|------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g ASTM D8045 | 0.4 | 0.41 | --- | --- |

OIL ANALYSIS REPORT



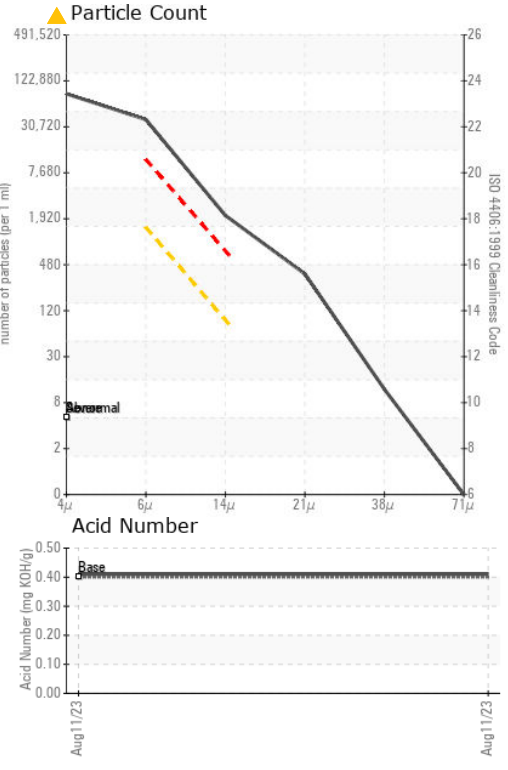
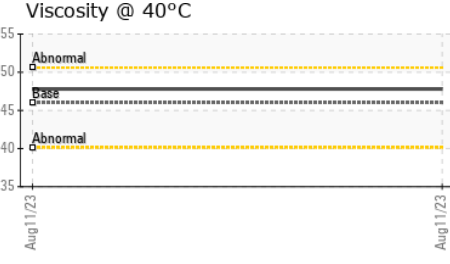
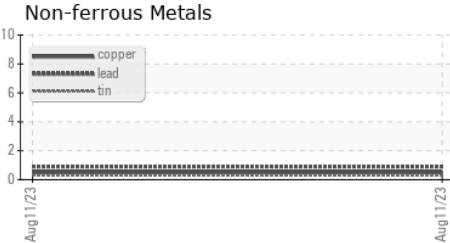
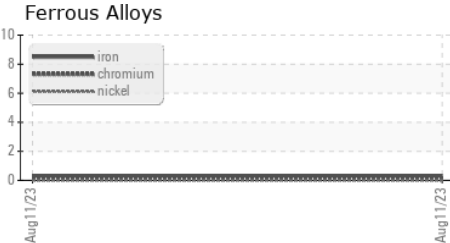
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | LIGHT | --- |
| 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 | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 46 | 47.8 | --- |

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

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC108953 **Received** : 29 Aug 2023
Lab Number : 05937236 **Diagnosed** : 30 Aug 2023
Unique Number : 10622507 **Diagnostician** : Don Baldrige
Test Package : IND 2

BETHLEHEM LANDFILL
 2335 APPLEBUTTER RD
 BETHLEHEM, PA
 US 18017
 Contact: Service Manager

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)