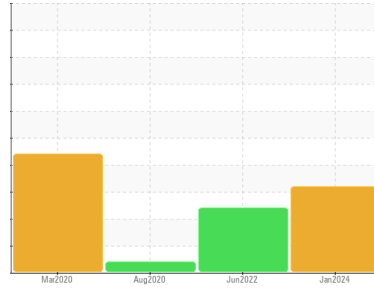




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
ASEPTIC HI PRESSURE

Component
Air Compressor

Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

Bearing and/or bushing wear is indicated.

Contamination

There is a moderate amount of visible silt present in the sample.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | USP0007661 | USP236242 | USP207096 |
| Sample Date | Client Info | 31 Jan 2024 | 21 Jun 2022 | 18 Aug 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 | ABNORMAL |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------|-----------------|--------------|----------|----------|
| Iron ppm | ASTM D5185m >50 | ▲ 97 | ▲ 51 | 18 |
| Chromium ppm | ASTM D5185m >4 | ▲ 13 | ▲ 7 | 2 |
| Nickel ppm | ASTM D5185m >4 | <1 | 0 | 1 |
| Titanium ppm | ASTM D5185m | 0 | 0 | <1 |
| Silver ppm | ASTM D5185m | 0 | <1 | 0 |
| Aluminum ppm | ASTM D5185m >10 | <1 | <1 | 0 |
| Lead ppm | ASTM D5185m >20 | 8 | 4 | 8 |
| Copper ppm | ASTM D5185m >40 | ▲ 42 | 27 | 37 |
| Tin ppm | ASTM D5185m >5 | 3 | <1 | 0 |
| Antimony ppm | ASTM D5185m | --- | --- | 1 |
| Vanadium ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|----------------|-------------|--------------|----------|----------|
| Boron ppm | ASTM D5185m | 0 | 2 | <1 |
| Barium ppm | ASTM D5185m | 0 | <1 | 0 |
| Molybdenum ppm | ASTM D5185m | <1 | <1 | 0 |
| Manganese ppm | ASTM D5185m | 1 | <1 | <1 |
| Magnesium ppm | ASTM D5185m | 2 | 0 | <1 |
| Calcium ppm | ASTM D5185m | 101 | 74 | 111 |
| Phosphorus ppm | ASTM D5185m | 401 | 305 | 434 |
| Zinc ppm | ASTM D5185m | 510 | 375 | 494 |
| Sulfur ppm | ASTM D5185m | 9505 | 4956 | 6284 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------|------------------|--------------|----------|----------|
| Silicon ppm | ASTM D5185m >25 | 4 | 2 | 2 |
| Sodium ppm | ASTM D5185m | 1 | 3 | 4 |
| Potassium ppm | ASTM D5185m >20 | 2 | 0 | 17 |
| Water % | ASTM D6304 >0.6 | 0.005 | 0.010 | 0.010 |
| ppm Water | ASTM D6304 >6000 | 59 | 102.1 | 108.5 |

FLUID CLEANLINESS

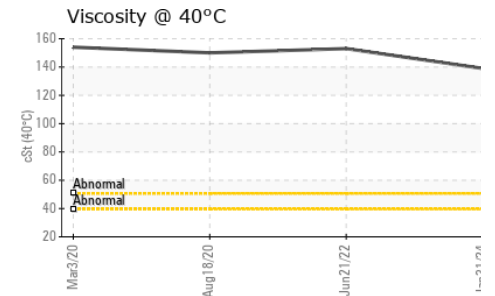
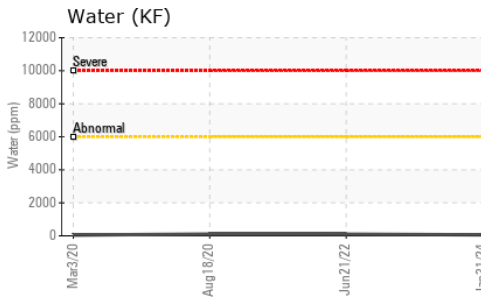
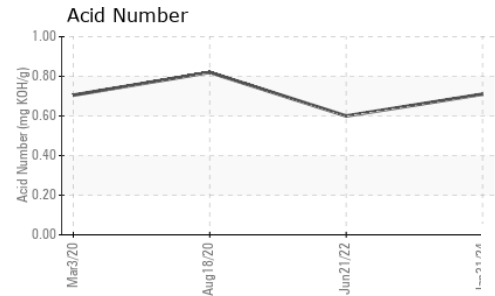
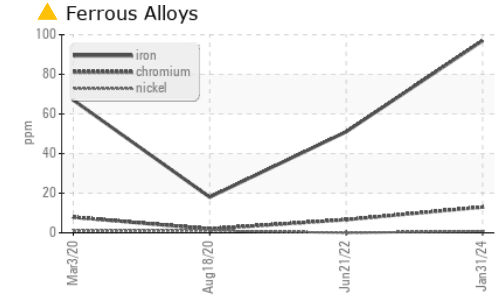
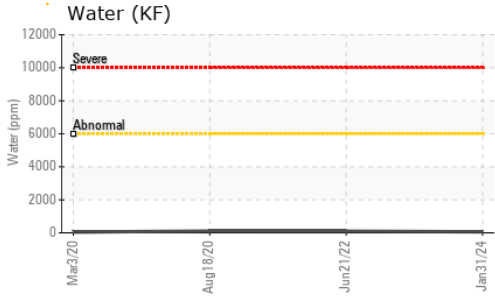
| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|------------|------------|------------|
| Particles >4µm | ASTM D7647 | --- | 185020 | 113554 |
| Particles >6µm | ASTM D7647 >2500 | --- | ▲ 66770 | ▲ 6862 |
| Particles >14µm | ASTM D7647 >320 | --- | 38 | 82 |
| Particles >21µm | ASTM D7647 >80 | --- | 3 | 10 |
| Particles >38µm | ASTM D7647 >20 | --- | 0 | 0 |
| Particles >71µm | ASTM D7647 >4 | --- | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) >--/18/15 | --- | ▲ 25/23/12 | ▲ 24/20/14 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|---------------------------|------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g | ASTM D8045 | 0.71 | 0.60 | 0.820 |



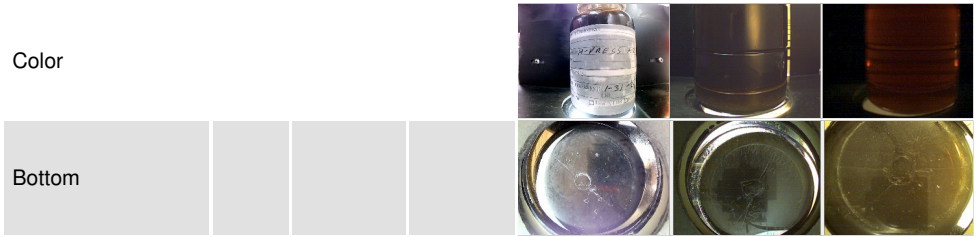
OIL ANALYSIS REPORT



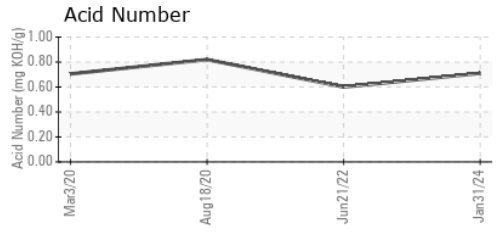
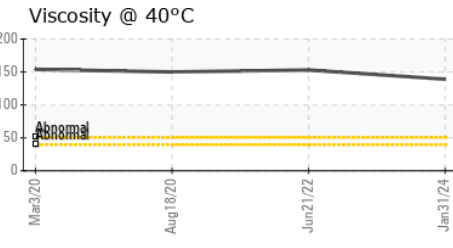
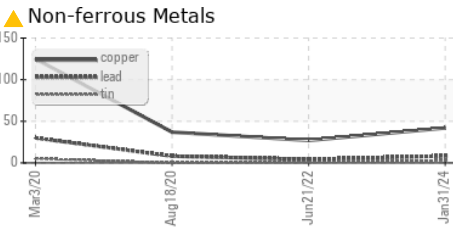
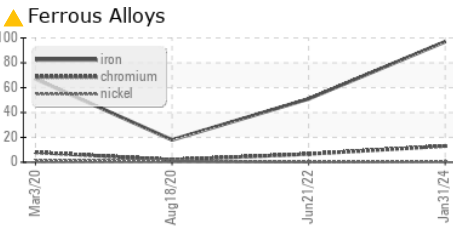
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | VLITE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | ▲ MODER | NONE | 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 | >0.6 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 139 | 153 | 150 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0007661 **Received** : 23 Feb 2024
Lab Number : 06099176 **Tested** : 26 Feb 2024
Unique Number : 10897406 **Diagnosed** : 26 Feb 2024 - Doug Bogart
Test Package : IND 2

KROGER MOUNTAIN VIEW FOODS
 10241 EAST 51ST AVE
 DENVER, CO
 US 80239
 Contact: CHARLES AMMERMAN

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)

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F: