

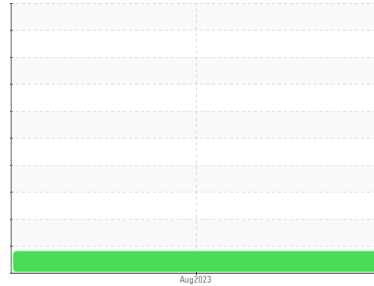


PROBLEM SUMMARY

Sample Rating Trend

WEAR

Area
Powerhouse
Machine Id
#3 Air Compressor
Component
Air Compressor
Fluid
MOBIL DTE OIL HVY MEDIUM (23 GAL)



COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

| | | | | | | |
|---------------|-----|-------------|-----|-----------------|-----|-----|
| Sample Status | | | | ABNORMAL | --- | --- |
| Copper | ppm | ASTM D5185m | >40 | ▲ 55 | --- | --- |

Customer Id: CASASH
Sample No.: WC0776557
Lab Number: 05927226
Test Package: PLANT



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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



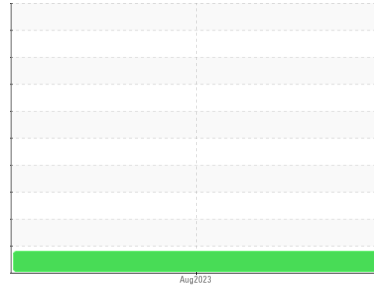
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
Powerhouse
 Machine Id
#3 Air Compressor
 Component
Air Compressor
 Fluid
MOBIL DTE OIL HVY MEDIUM (23 GAL)



DIAGNOSIS

▲ Recommendation

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

▲ Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. 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 | | WC0776557 | --- | --- |
| Sample Date | Client Info | | 11 Aug 2023 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 2 | --- | --- |
| Chromium | ppm | ASTM D5185m >4 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m >4 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >10 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m >20 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m >40 | ▲ 55 | --- | --- |
| Tin | ppm | ASTM D5185m >5 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <1 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 2 | --- | --- |
| Calcium | ppm | ASTM D5185m | 16 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 208 | --- | --- |
| Zinc | ppm | ASTM D5185m | 79 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 1494 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | <1 | --- | --- |
| Sodium | ppm | ASTM D5185m | 1 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 2 | --- | --- |
| Water | % | ASTM D6304 >0.6 | 0.001 | --- | --- |
| ppm Water | ppm | ASTM D6304 >6000 | 13.7 | --- | --- |

FLUID CLEANLINESS

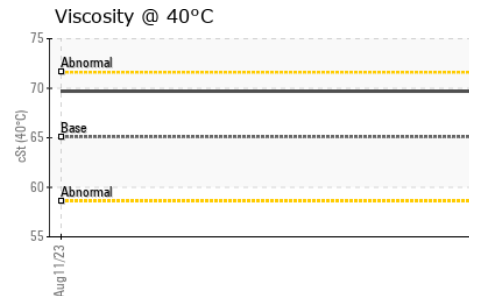
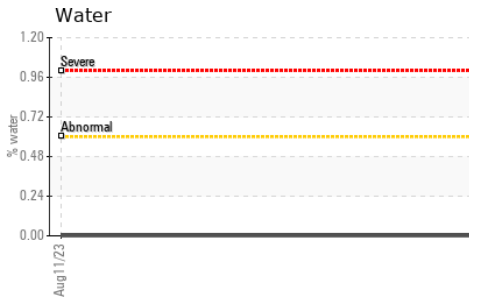
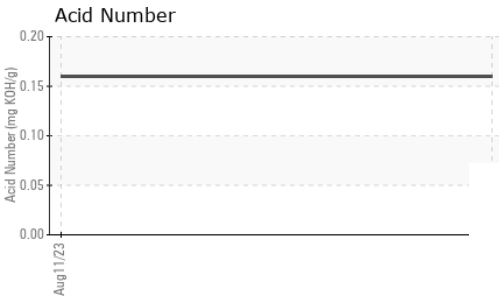
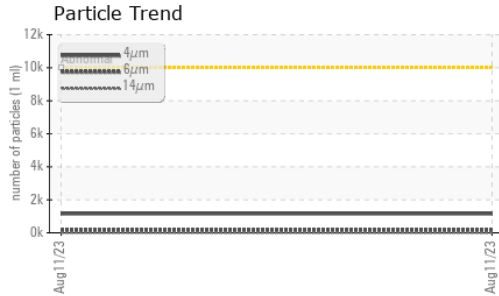
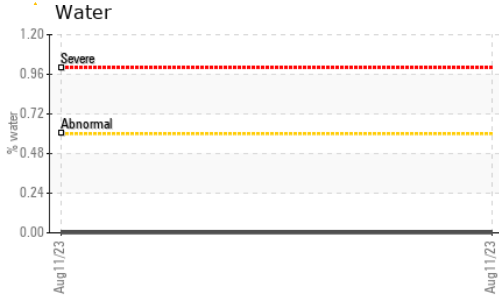
| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >10000 | 1157 | --- | --- |
| Particles >6µm | ASTM D7647 | >2500 | 169 | --- | --- |
| Particles >14µm | ASTM D7647 | >320 | 11 | --- | --- |
| Particles >21µm | ASTM D7647 | >80 | 3 | --- | --- |
| Particles >38µm | ASTM D7647 | >20 | 0 | --- | --- |
| Particles >71µm | ASTM D7647 | >4 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15 | 17/15/11 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.16 | --- | --- |



OIL ANALYSIS REPORT



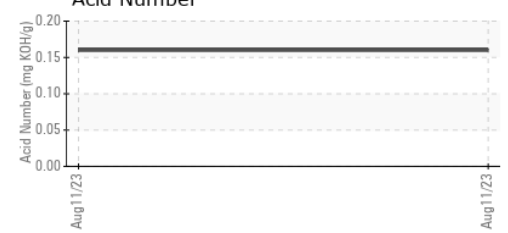
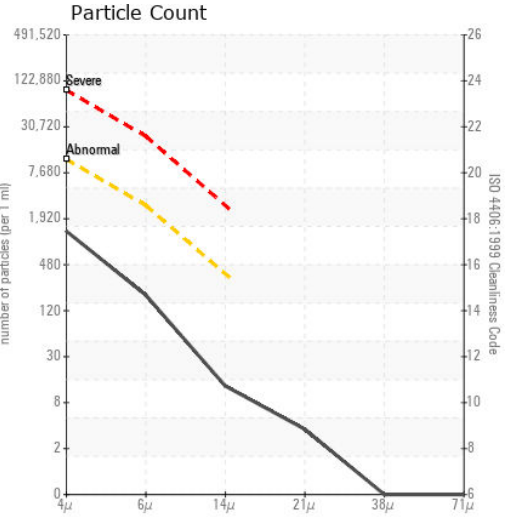
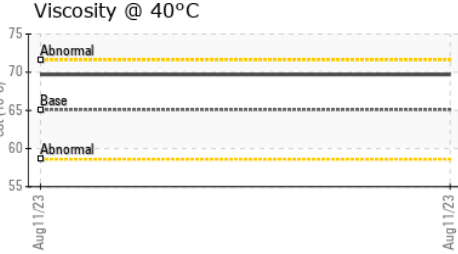
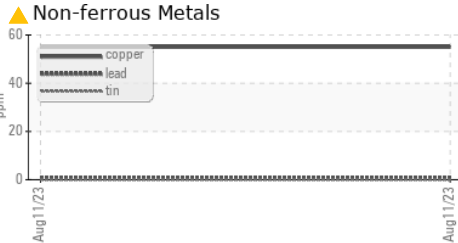
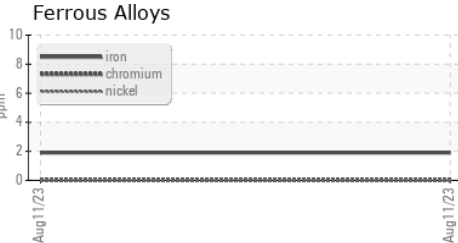
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.6 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 65.1 | 69.7 | --- |

| 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. : WC0776557 **Received** : 17 Aug 2023
Lab Number : 05927226 **Diagnosed** : 18 Aug 2023
Unique Number : 10607173 **Diagnostician** : Don Baldrige
Test Package : PLANT

CASCADES CONTAINERBOARD PACKAGING - BEARPACK PROJECT
 10026 OLD RIDGE ROAD
 ASHLAND, VA
 US 23005
 Contact: MARC-ANDRE HUBERT
 marc-andre_hubert@cascades.com

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)