



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
LSS-9300-5
 Machine Id
003-73951 - MANN HUMMEL
 Component
Compressor



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All 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 | UCH05980500 | --- | --- |
| Sample Date | Client Info | 19 Sep 2023 | --- | --- |
| Machine Age | hrs Client Info | 68838 | --- | --- |
| Oil Age | hrs Client Info | 1811 | --- | --- |
| Oil Changed | Client Info | N/A | --- | --- |
| Sample Status | | NORMAL | --- | --- |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------------------|------------|--------------|----------|----------|
| Iron ppm ASTM D5185m | >50 | 0 | --- | --- |
| Chromium ppm ASTM D5185m | >10 | 0 | --- | --- |
| Nickel ppm ASTM D5185m | | <1 | --- | --- |
| Titanium ppm ASTM D5185m | | 0 | --- | --- |
| Silver ppm ASTM D5185m | | 0 | --- | --- |
| Aluminum ppm ASTM D5185m | >25 | <1 | --- | --- |
| Lead ppm ASTM D5185m | >25 | 0 | --- | --- |
| Copper ppm ASTM D5185m | >50 | <1 | --- | --- |
| Tin ppm ASTM D5185m | >15 | <1 | --- | --- |
| Vanadium ppm ASTM D5185m | | 0 | --- | --- |
| 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 | | 0 | --- | --- |
| Magnesium ppm ASTM D5185m | | 3 | --- | --- |
| Calcium ppm ASTM D5185m | | 1 | --- | --- |
| Phosphorus ppm ASTM D5185m | | 288 | --- | --- |
| Zinc ppm ASTM D5185m | | 25 | --- | --- |
| Sulfur ppm ASTM D5185m | | 1024 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------------------|------------|--------------|----------|----------|
| Silicon ppm ASTM D5185m | >25 | <1 | --- | --- |
| Sodium ppm ASTM D5185m | | 0 | --- | --- |
| Potassium ppm ASTM D5185m | >20 | 2 | --- | --- |

FLUID DEGRADATION

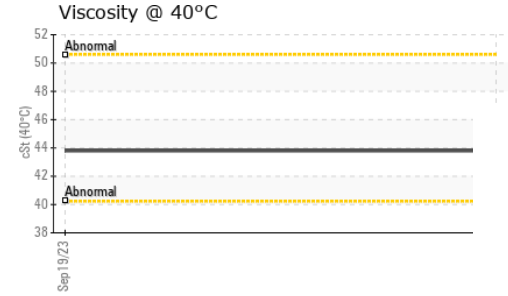
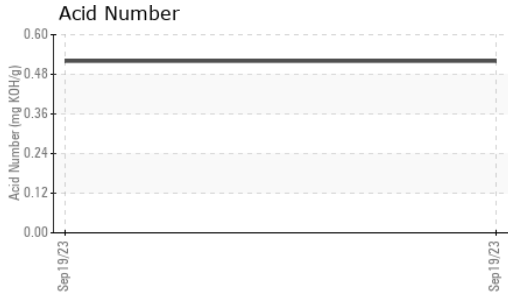
| method | limit/base | current | history1 | history2 |
|--------------------------------------|------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g ASTM D8045 | | 0.52 | --- | --- |

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 | >0.1 | NEG | --- | --- |
| Free Water scalar *Visual | | NEG | --- | --- |



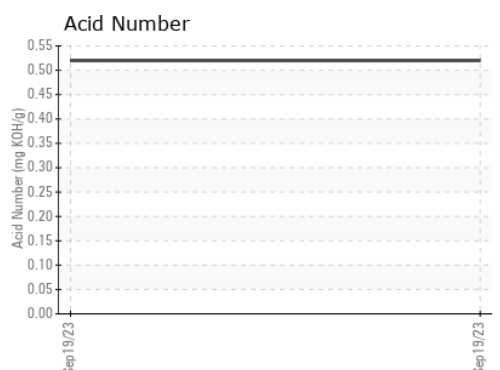
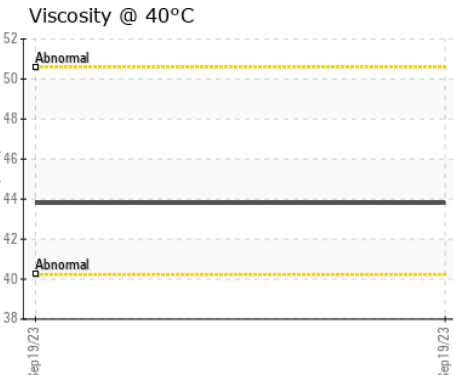
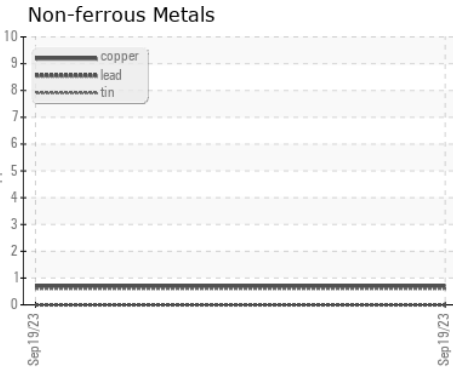
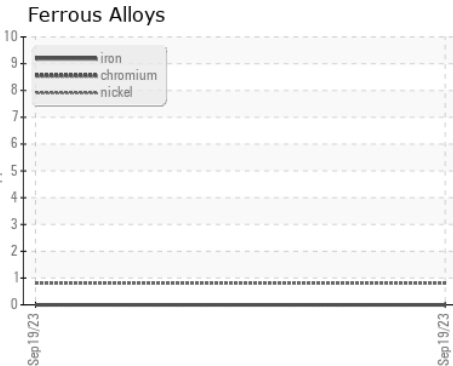
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | | 43.8 | --- | --- |

| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
| Color | | | | | no image | no image |
| Bottom | | | | | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH05980500 **Received** : 16 Oct 2023
Lab Number : **05980500** **Diagnosed** : 18 Oct 2023
Unique Number : 10697795 **Diagnostician** : Jonathan Hester
Test Package : IND 2

LEWIS SYSTEM AND SERVICES CO
 3915 SHOPTON RD
 CHARLOTTE, NC
 US 28217
 Contact: SCOTT KEE
 skee@lewisystemsinc.com
 T: (704)588-2299
 F:

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)