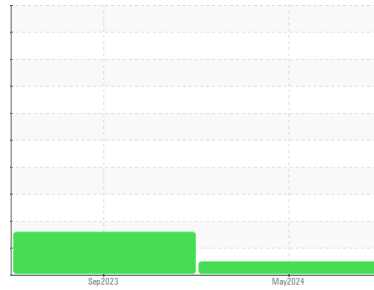


Area
SMART OIL 6000
Machine Id
HERTZ VD021898
Component
Compressor

Sample Rating Trend



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 acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2

| | | | | |
|---------------|-------------|--------------------|---------------|-----------|
| Sample Number | Client Info | UHK06180243 | UHK05955366 | --- |
| Sample Date | Client Info | 14 May 2024 | 12 Sep 2023 | --- |
| Machine Age | hrs | Client Info | 246 | 244 |
| Oil Age | hrs | Client Info | 143 | 244 |
| Oil Changed | Client Info | Changed | Changed | --- |
| Sample Status | | | NORMAL | ATTENTION |

CONTAMINATION method limit/base current history1 history2

| | | | | | |
|-------|-----------|------|------------|-----|-----|
| Water | WC Method | >0.1 | NEG | NEG | --- |
|-------|-----------|------|------------|-----|-----|

WEAR METALS method limit/base current history1 history2

| | | | | | | |
|----------|-----|-------------|-----|--------------|----|-----|
| Iron | ppm | ASTM D5185m | >50 | 0 | <1 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Nickel | ppm | ASTM D5185m | | <1 | 10 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | | <1 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 3 | --- |
| Lead | ppm | ASTM D5185m | >25 | <1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >50 | <1 | 2 | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | --- |

ADDITIVES method limit/base current history1 history2

| | | | | | | |
|------------|-----|-------------|----|--------------|-----|-----|
| Boron | ppm | ASTM D5185m | | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | <1 | 8 | --- |
| Calcium | ppm | ASTM D5185m | 20 | <1 | 0 | --- |
| Phosphorus | ppm | ASTM D5185m | | 616 | 54 | --- |
| Zinc | ppm | ASTM D5185m | | <1 | 24 | --- |
| Sulfur | ppm | ASTM D5185m | | 1470 | 306 | --- |

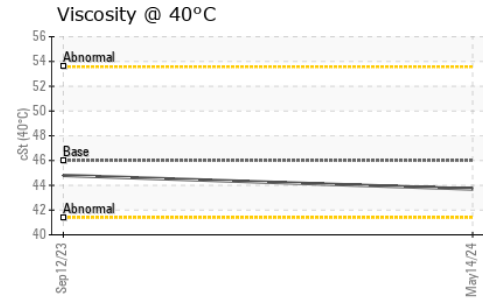
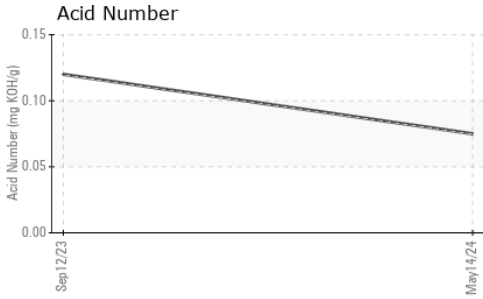
CONTAMINANTS method limit/base current history1 history2

| | | | | | | |
|-----------|-----|-------------|-----|----------|---|-----|
| Silicon | ppm | ASTM D5185m | >25 | 1 | 7 | --- |
| Sodium | ppm | ASTM D5185m | | 0 | 3 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 0 | --- |

FLUID DEGRADATION method limit/base current history1 history2

| | | | | | | |
|------------------|----------|------------|--|--------------|------|-----|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.075 | 0.12 | --- |
|------------------|----------|------------|--|--------------|------|-----|

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 | >0.1 | NEG | 0.2% |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D445 | 46 | 43.7 | 44.8 | --- |

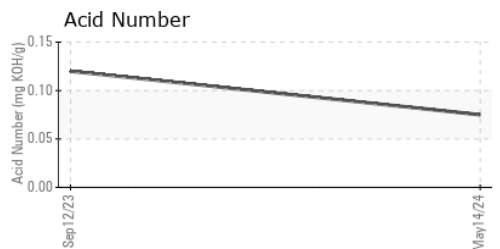
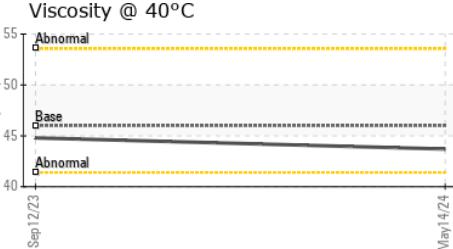
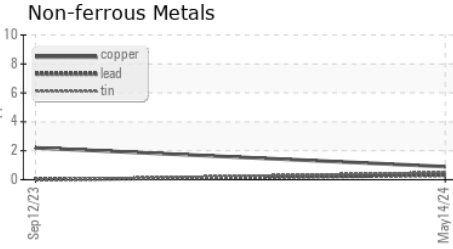
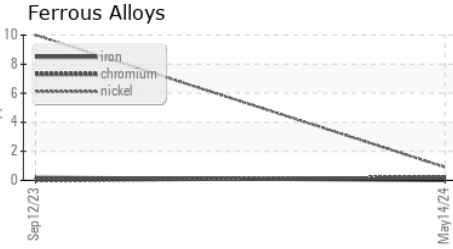
SAMPLE IMAGES

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

no image

no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UHK06180243 **Received** : 15 May 2024
Lab Number : **06180243** **Tested** : 16 May 2024
Unique Number : 11031569 **Diagnosed** : 17 May 2024 - Sean Felton
Test Package : IND 2

COMPRESSOR SERVICES
 5723 WEATHERSTONE WAY
 JOHNSBURG, IL
 US 60051
 Contact: MIKE BRITT
 mike@compressorservices.net
 T: 1(706)455-9081
 F: (847)497-9754

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)