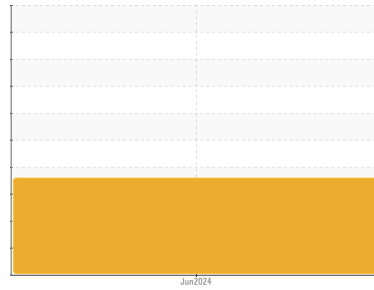




PROBLEM SUMMARY

Area
KELTECH SYN PAO 15W [7124]
 Machine Id
RODGERS QUINCY AC-035 - S&C FIELD SERVICE (S/N 0906514366)
 Component
Compressor

Sample Rating Trend

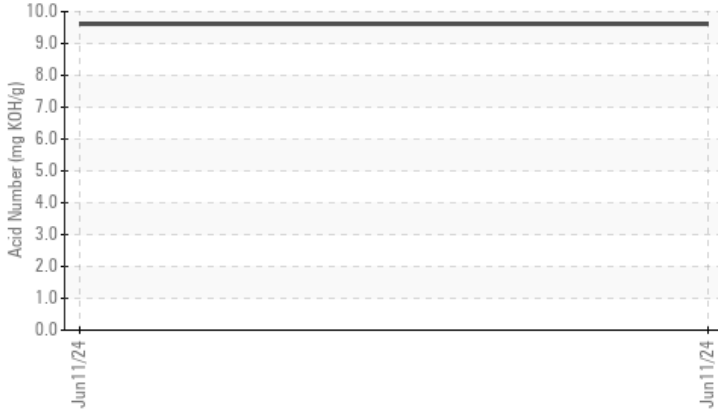


DEGRADATION

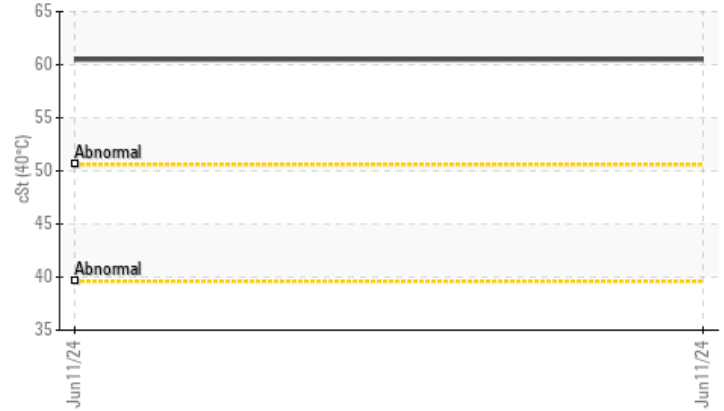


COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Viscosity @ 40°C



RECOMMENDATION

We advise that you check for a possible overheat condition. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

| Sample Status | | | SEVERE | --- | --- |
|------------------|----------|------------|---------|-----|-----|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | ▲ 9.618 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | ▲ 60.5 | --- | --- |

Customer Id: UCKELTWI
 Sample No.: UCH06236153
 Lab Number: 06236153
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

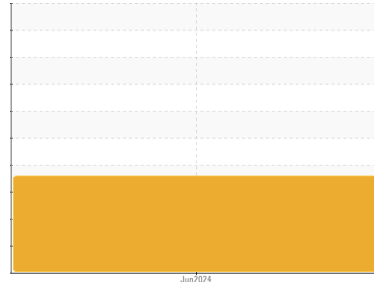
| Action | Status | Date | Done By | Description |
|-----------------------|--------|------|---------|---|
| Change Fluid | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |
| Change Filter | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |
| Resample | --- | --- | ? | We recommend an early resample to monitor this condition. |
| Check For Overheating | --- | --- | ? | We advise that you check for a possible overheat condition. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area

KELTECH SYN PAO 15W [7124]

Machine Id

RODGERS QUINCY AC-035 - S&C FIELD SERVICE (S/N 0906514366)

Component

Compressor

DIAGNOSIS

▲ Recommendation

We advise that you check for a possible overheat condition. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The AN level is well above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | UCH06236153 | --- | --- |
| Sample Date | Client Info | | 11 Jun 2024 | --- | --- |
| Machine Age | hrs | Client Info | 48437 | --- | --- |
| Oil Age | hrs | Client Info | 1600 | --- | --- |
| Oil Changed | Client Info | | Changed | --- | --- |
| Sample Status | | | SEVERE | --- | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 3 | --- | --- |
| Chromium | ppm | ASTM D5185m >10 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >25 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m >25 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m >50 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m >15 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185m | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | <1 | --- | --- |
| Barium | ppm | ASTM D5185m | 13 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 2 | --- | --- |
| Calcium | ppm | ASTM D5185m | 4 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 326 | --- | --- |
| Zinc | ppm | ASTM D5185m | 24 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 92 | --- | --- |

CONTAMINANTS

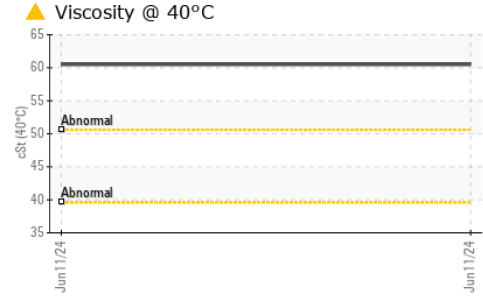
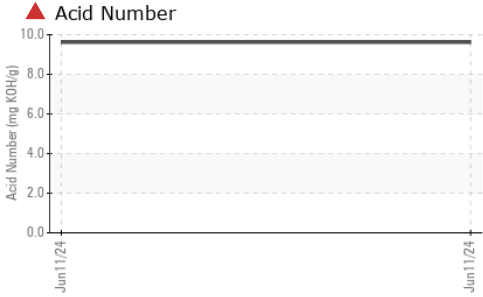
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | <1 | --- | --- |
| Sodium | ppm | ASTM D5185m | 2 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 0 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|----------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | ▲ 9.618 | --- | --- |



OIL ANALYSIS REPORT



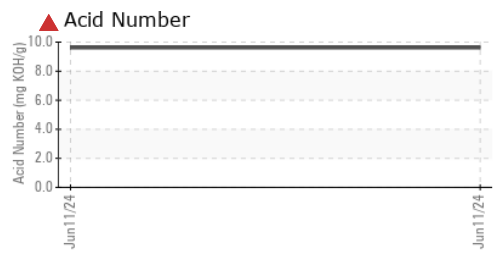
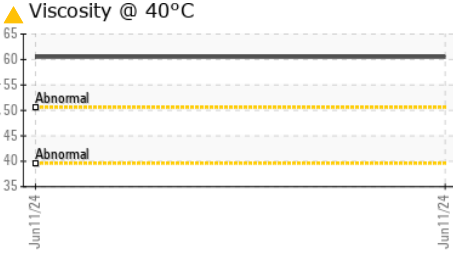
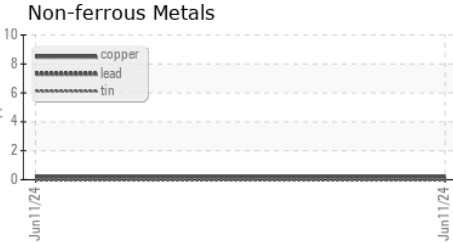
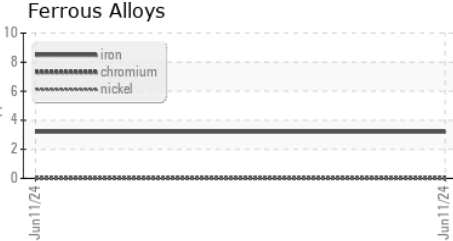
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Precipitate | scalar | *Visual | 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 | --- | --- |
| Free Water | scalar | *Visual | | NEG | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | ▲ 60.5 | --- | --- |

| 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. : UCH06236153 **Received** : 15 Jul 2024
Lab Number : 06236153 **Tested** : 16 Jul 2024
Unique Number : 11124987 **Diagnosed** : 17 Jul 2024 - Jonathan Hester
Test Package : IND 2

KELTEC TECHNLAB INC
 2300 E ENTERPRISE PKWY
 TWINSBURG, OH
 US 44087
 Contact: MATT BACHMANN
 matt@keltecinc.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) F: (330)425-3550