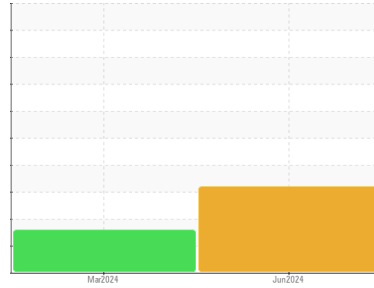




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

PALASYN 45 [1249]

Machine Id

SULLIVAN PALATEK 23BE003736 - JMP SOLUTIONS/P66

Component

Compressor

DIAGNOSIS

● Recommendation

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

● Contamination

There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. Excessive free water present.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | UCH06208776 | UCH06124991 | --- |
| Sample Date | Client Info | | 12 Jun 2024 | 21 Mar 2024 | --- |
| Machine Age | hrs | Client Info | 2738 | 1852 | --- |
| Oil Age | hrs | Client Info | 914 | 0 | --- |
| Oil Changed | Client Info | | N/A | Changed | --- |
| Sample Status | | | ATTENTION | ATTENTION | --- |

WEAR METALS

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

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m 0.0 | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m 0.0 | 0 | 2 | --- |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m 0 | 0 | 0 | --- |
| Magnesium | ppm | ASTM D5185m 0.0 | 0 | <1 | --- |
| Calcium | ppm | ASTM D5185m 0.0 | 0 | 4 | --- |
| Phosphorus | ppm | ASTM D5185m 966 | 590 | 532 | --- |
| Zinc | ppm | ASTM D5185m 0 | 0 | 2 | --- |
| Sulfur | ppm | ASTM D5185m 1309 | 1498 | 1253 | --- |

CONTAMINANTS

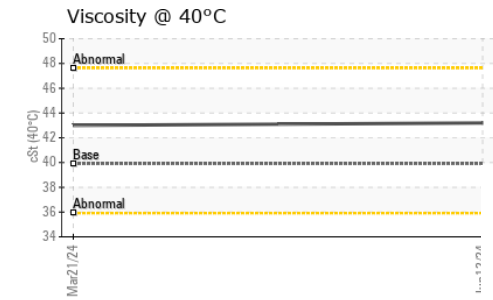
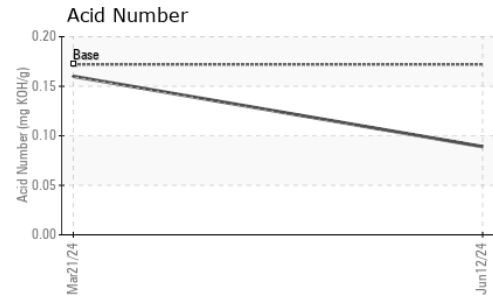
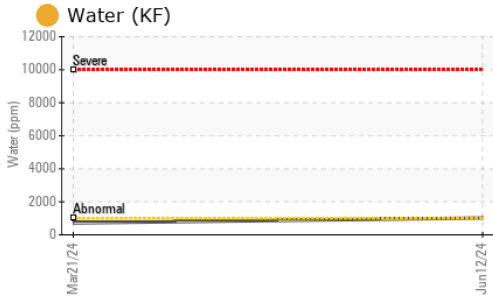
| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 1 | 2 | --- |
| Sodium | ppm | ASTM D5185m | 1 | 0 | --- |
| Potassium | ppm | ASTM D5185m >20 | 0 | 1 | --- |
| Water | % | ASTM D6304 >0.1 | ● 0.102 | 0.072 | --- |
| ppm Water | ppm | ASTM D6304 >1000 | ● 1020 | 720 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.172 | 0.089 | 0.16 | --- |



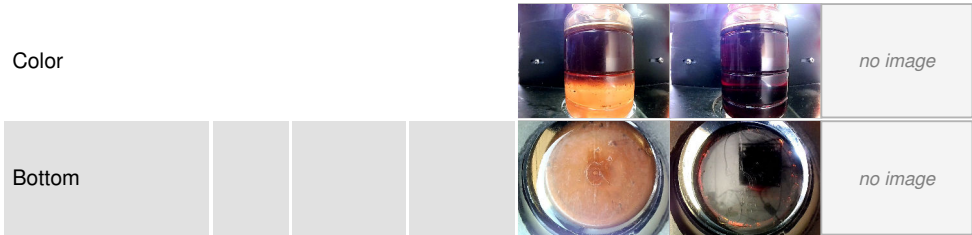
OIL ANALYSIS REPORT



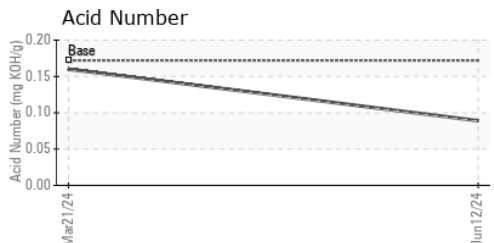
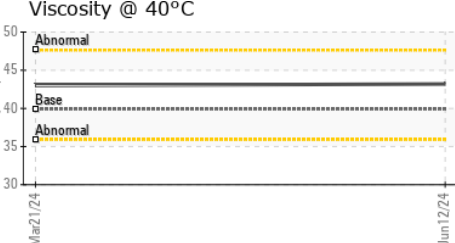
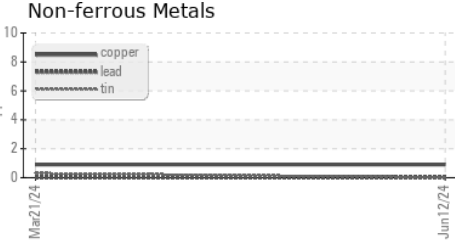
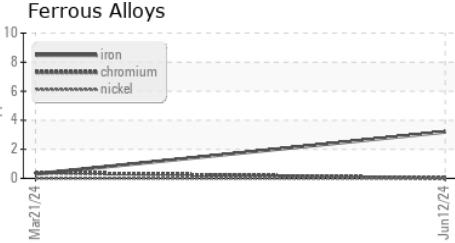
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | MODER | --- |
| Debris | scalar | *Visual | NONE | NONE | MODER |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | 0.2% | --- |
| Free Water | scalar | *Visual | ● >10% | ● 1.0 | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 39.9 | 43.2 | 43.0 |

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



GRAPHS



Certificate L2367 **Test Package** : IND 2 (Additional Tests: KF)
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)

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH06208776 **Received** : 13 Jun 2024
Lab Number : 06208776 **Tested** : 17 Jun 2024
Unique Number : 11076237 **Diagnosed** : 17 Jun 2024 - Don Baldrige

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T:
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