



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**NOT GIVEN [264046]**  
 Machine Id  
**AK100019200 - CNC SWISS**  
 Component  
**Compressor**  
 Fluid  
**COMPRESSOR OIL (PAO) ISO 46 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of visible silt present in the sample.

### 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     | <b>UFD06055418</b> | ---      | ---      |
| Sample Date   | Client Info     | <b>16 Oct 2023</b> | ---      | ---      |
| Machine Age   | hrs Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info     | <b>N/A</b>         | ---      | ---      |
| Sample Status |                 | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

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

## WEAR METALS

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

## ADDITIVES

| method     | limit/base          | current    | history1 | history2 |
|------------|---------------------|------------|----------|----------|
| Boron      | ppm ASTM D5185m 1   | <b>0</b>   | ---      | ---      |
| Barium     | ppm ASTM D5185m 1   | <b>0</b>   | ---      | ---      |
| Molybdenum | ppm ASTM D5185m 1   | <b>0</b>   | ---      | ---      |
| Manganese  | ppm ASTM D5185m     | <b>0</b>   | ---      | ---      |
| Magnesium  | ppm ASTM D5185m 1   | <b>0</b>   | ---      | ---      |
| Calcium    | ppm ASTM D5185m 1   | <b>0</b>   | ---      | ---      |
| Phosphorus | ppm ASTM D5185m 800 | <b>459</b> | ---      | ---      |
| Zinc       | ppm ASTM D5185m 20  | <b>14</b>  | ---      | ---      |
| Sulfur     | ppm ASTM D5185m 37  | <b>0</b>   | ---      | ---      |

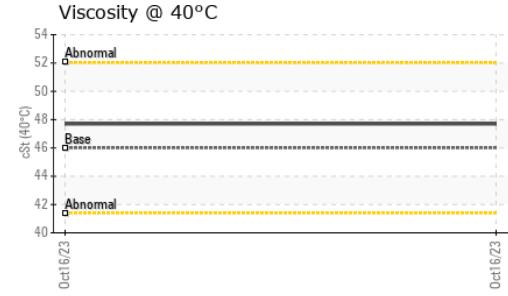
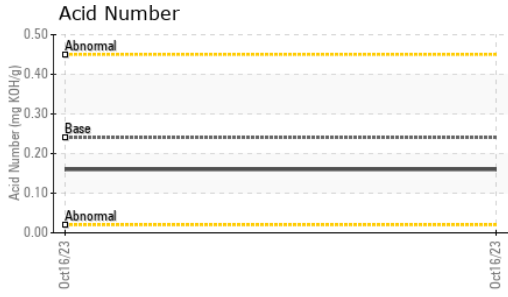
## CONTAMINANTS

| method    | limit/base          | current      | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon   | ppm ASTM D5185m >25 | <b>8</b>     | ---      | ---      |
| Sodium    | ppm ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Potassium | ppm ASTM D5185m >20 | <b>0</b>     | ---      | ---      |

## FLUID DEGRADATION

| method           | limit/base               | current     | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D8045 0.24 | <b>0.16</b> | ---      | ---      |



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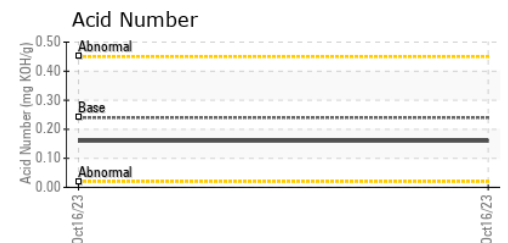
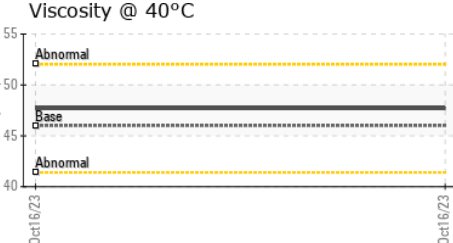
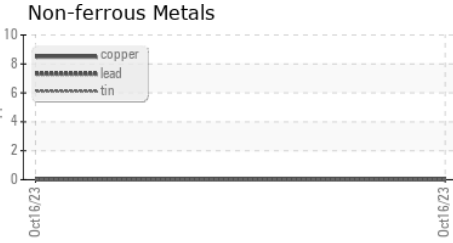
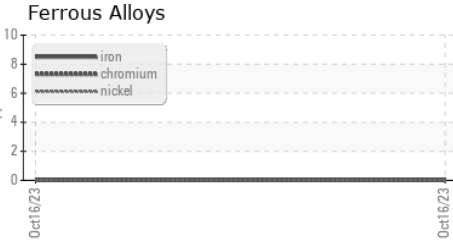
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | ---      |
| Silt             | scalar | *Visual    | NONE    | MODER    | ---      |
| Debris           | scalar | *Visual    | NONE    | NONE     | ---      |
| 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 46 | 47.7    | ---      | ---      |

| 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.** : UFD06055418 **Recieved** : 09 Jan 2024  
**Lab Number** : 06055418 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821367 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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 SCHAUMBURG, IL  
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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)