



# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**1432640 (S/N 3611920)**  
 Component  
**Compressor**  
 Fluid  
**QUINCY (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is a high amount of particulates present 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     | <b>KCPA018096</b>  | ---      | ---      |
| Sample Date   | Client Info     | <b>19 Jun 2024</b> | ---      | ---      |
| Machine Age   | hrs Client Info | <b>15899</b>       | ---      | ---      |
| Oil Age       | hrs Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info     | <b>Changed</b>     | ---      | ---      |
| Sample Status |                 | <b>ABNORMAL</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   | >3         | <b>0</b> | ---      | ---      |
| Titanium ppm ASTM D5185m | >3         | <b>0</b> | ---      | ---      |
| Silver ppm ASTM D5185m   | >2         | <b>0</b> | ---      | ---      |
| Aluminum ppm ASTM D5185m | >10        | <b>0</b> | ---      | ---      |
| Lead ppm ASTM D5185m     | >10        | <b>0</b> | ---      | ---      |
| Copper ppm ASTM D5185m   | >50        | <b>2</b> | ---      | ---      |
| Tin ppm ASTM D5185m      | >10        | <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      |            | <b>0</b>     | ---      | ---      |
| Barium ppm ASTM D5185m     |            | <b>&lt;1</b> | ---      | ---      |
| Molybdenum ppm ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Manganese ppm ASTM D5185m  |            | <b>&lt;1</b> | ---      | ---      |
| Magnesium ppm ASTM D5185m  |            | <b>0</b>     | ---      | ---      |
| Calcium ppm ASTM D5185m    |            | <b>0</b>     | ---      | ---      |
| Phosphorus ppm ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Zinc ppm ASTM D5185m       |            | <b>10</b>    | ---      | ---      |
| Sulfur ppm ASTM D5185m     |            | <b>104</b>   | ---      | ---      |

## CONTAMINANTS

| method                    | limit/base | current      | history1 | history2 |
|---------------------------|------------|--------------|----------|----------|
| Silicon ppm ASTM D5185m   | >25        | <b>5</b>     | ---      | ---      |
| Sodium ppm ASTM D5185m    |            | <b>3</b>     | ---      | ---      |
| Potassium ppm ASTM D5185m | >20        | <b>&lt;1</b> | ---      | ---      |
| Water % ASTM D6304        | >0.05      | <b>0.006</b> | ---      | ---      |
| ppm Water ppm ASTM D6304  | >500       | <b>66</b>    | ---      | ---      |

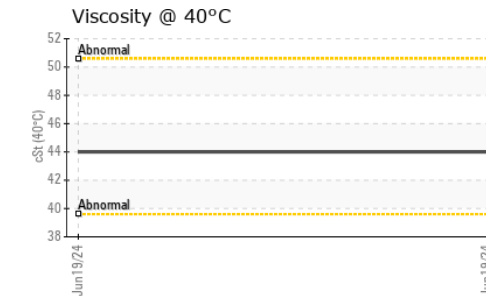
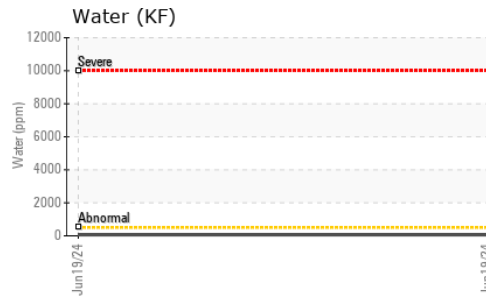
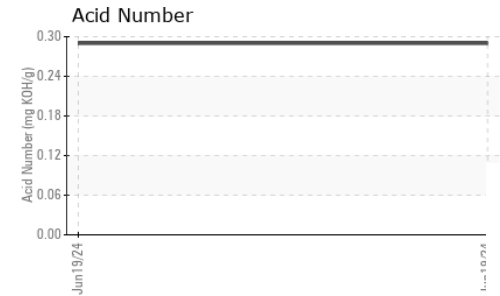
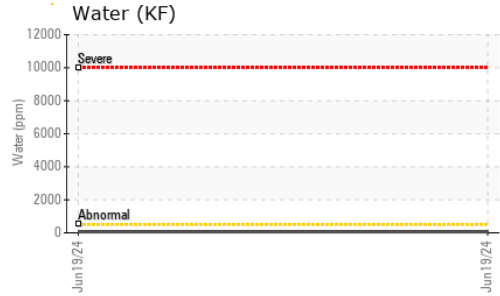
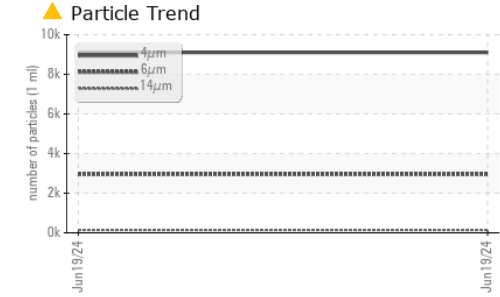
## FLUID CLEANLINESS

| method                       | limit/base | current           | history1 | history2 |
|------------------------------|------------|-------------------|----------|----------|
| Particles >4µm ASTM D7647    |            | <b>9101</b>       | ---      | ---      |
| Particles >6µm ASTM D7647    | >1300      | <b>▲ 2957</b>     | ---      | ---      |
| Particles >14µm ASTM D7647   | >80        | <b>▲ 142</b>      | ---      | ---      |
| Particles >21µm ASTM D7647   | >20        | <b>▲ 22</b>       | ---      | ---      |
| Particles >38µm ASTM D7647   | >4         | <b>0</b>          | ---      | ---      |
| Particles >71µm ASTM D7647   | >3         | <b>0</b>          | ---      | ---      |
| Oil Cleanliness ISO 4406 (c) | >--/17/13  | <b>▲ 20/19/14</b> | ---      | ---      |

## FLUID DEGRADATION

| method                               | limit/base | current     | history1 | history2 |
|--------------------------------------|------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g ASTM D8045 |            | <b>0.29</b> | ---      | ---      |

# OIL ANALYSIS REPORT



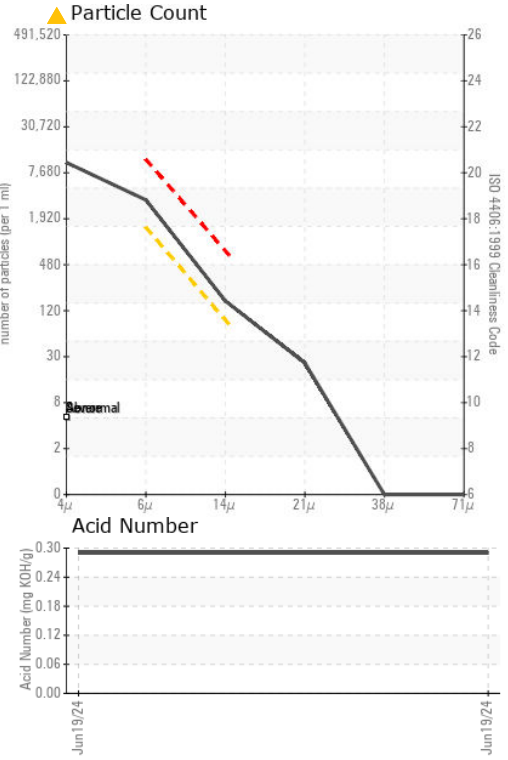
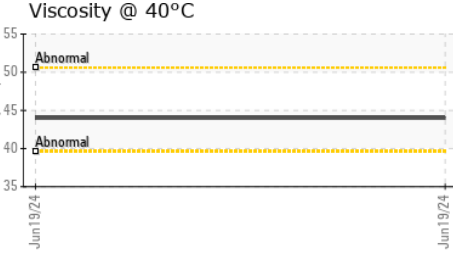
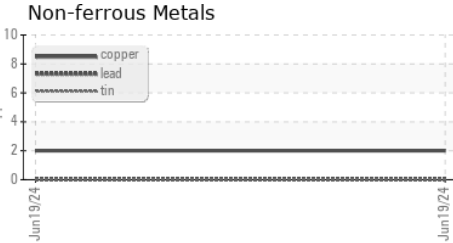
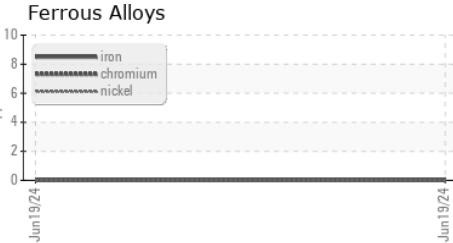
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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    | >0.05   | NEG      | ---      |
| Free Water       | scalar | *Visual    |         | NEG      | ---      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 44.0    | ---      | ---      |

| 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.** : KCPA018096  
**Lab Number** : 06221244  
**Unique Number** : 11099441  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )  
**Received** : 26 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 27 Jun 2024 - Don Baldrige

**INLAND MARINE INDUSTRIES**  
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 US 94545  
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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)