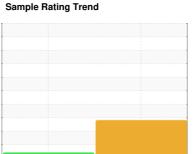


# **OIL ANALYSIS REPORT**



**WATER** 

# KAESER SFC 37T 5673724 (S/N 1061)

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

## **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil. There is a trace of moisture present in the

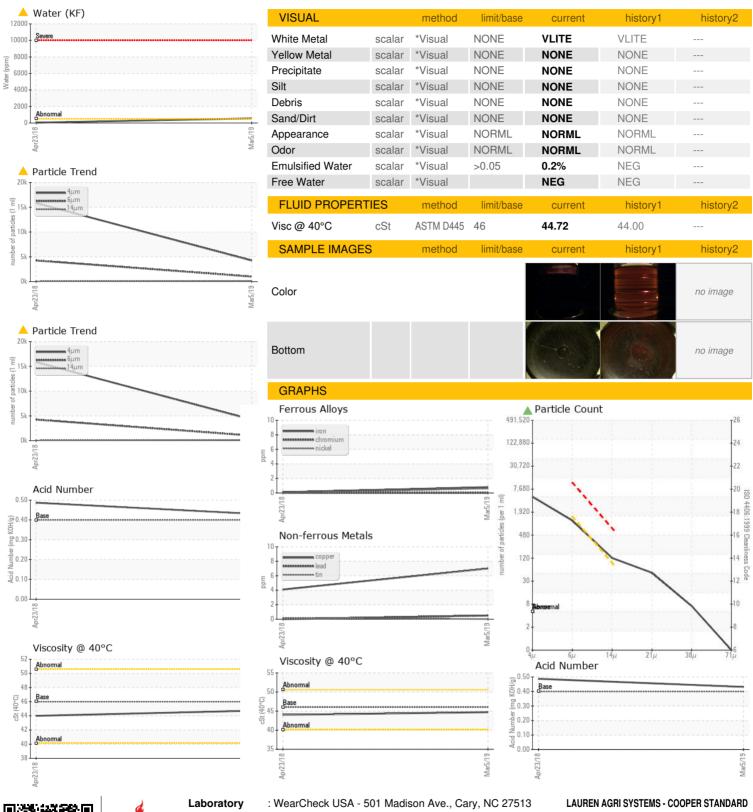
### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |              | Apr2018    | Mar2019        |               |          |
|------------------|----------|--------------|------------|----------------|---------------|----------|
| SAMPLE INFORM    | MATION   | method       | limit/base | current        | history1      | history2 |
| Sample Number    |          | Client Info  |            | KC77808        | KC63247       |          |
| Sample Date      |          | Client Info  |            | 05 Mar 2019    | 23 Apr 2018   |          |
| Machine Age      | hrs      | Client Info  |            | 6105           | 1183          |          |
| Oil Age          | hrs      | Client Info  |            | 4922           | 1200          |          |
| Oil Changed      |          | Client Info  |            | Changed        | Changed       |          |
| Sample Status    |          |              |            | ABNORMAL       | ABNORMAL      |          |
| WEAR METALS      |          | method       | limit/base | current        | history1      | history2 |
| Iron             | ppm      | ASTM D5185m  | >50        | <1             | <1            |          |
| Chromium         | ppm      | ASTM D5185m  | >10        | 0              | 0             |          |
| Nickel           | ppm      | ASTM D5185m  | >3         | <1             | 0             |          |
| Titanium         | ppm      | ASTM D5185m  | >3         | 0              | 0             |          |
| Silver           | ppm      | ASTM D5185m  | >2         | <1             | 0             |          |
| Aluminum         | ppm      | ASTM D5185m  | >10        | <1             | <1            |          |
| Lead             | ppm      | ASTM D5185m  | >10        | <1             | 0             |          |
| Copper           | ppm      | ASTM D5185m  | >50        | 7              | 4             |          |
| Tin              | ppm      | ASTM D5185m  | >10        | 0              | <1            |          |
| Antimony         | ppm      | ASTM D5185m  |            | 0              | 0             |          |
| Vanadium         | ppm      | ASTM D5185m  |            | 0              | 0             |          |
| Cadmium          | ppm      | ASTM D5185m  |            | 0              | 0             |          |
| ADDITIVES        |          | method       | limit/base | current        | history1      | history2 |
| Boron            | ppm      | ASTM D5185m  |            | 3              | 0             |          |
| Barium           | ppm      | ASTM D5185m  | 90         | 0              | <1            |          |
| Molybdenum       | ppm      | ASTM D5185m  |            | 0              | 0             |          |
| Manganese        | ppm      | ASTM D5185m  |            | 1              | 0             |          |
| Magnesium        | ppm      | ASTM D5185m  | 90         | 0              | 2             |          |
| Calcium          | ppm      | ASTM D5185m  | 2          | 0              | 0             |          |
| Phosphorus       | ppm      | ASTM D5185m  |            | 63             | 38            |          |
| Zinc             | ppm      | ASTM D5185m  |            | 24             | 16            |          |
| CONTAMINANTS     | 3        | method       | limit/base | current        | history1      | history2 |
| Silicon          | ppm      | ASTM D5185m  | >25        | 5              | <1            |          |
| Sodium           | ppm      | ASTM D5185m  |            | 4              | <1            |          |
| Potassium        | ppm      | ASTM D5185m  | >20        | 6              | 0             |          |
| Water            | %        | ASTM D6304   | >0.05      | <b>△</b> 0.056 | 0.004         |          |
| ppm Water        | ppm      | ASTM D6304   | >500       | <b>△</b> 560   | 40            |          |
| FLUID CLEANLIN   | IESS     | method       | limit/base | current        | history1      | history2 |
| Particles >4µm   |          | ASTM D7647   |            | 4240           | 15855         |          |
| Particles >6µm   |          | ASTM D7647   | >1300      | 1010           | <b>▲</b> 4254 |          |
| Particles >14μm  |          | ASTM D7647   | >80        | <b>107</b>     | 58            |          |
| Particles >21µm  |          | ASTM D7647   | >20        | <b>4</b> 4     | 13            |          |
| Particles >38μm  |          | ASTM D7647   | >4         | <b>6</b>       | 2             |          |
| Particles >71μm  |          | ASTM D7647   | >3         | 0              | 0             |          |
| Oil Cleanliness  |          | ISO 4406 (c) | >/17/13    | <b>17/14</b>   | <b>1</b> 9/13 |          |
| FLUID DEGRADA    | ATION    | method       | limit/base | current        | history1      | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045   | 0.4        | 0.431          | 0.487         |          |



## **OIL ANALYSIS REPORT**





Certificate L2367

Sample No. Lab Number **Unique Number** 

: KC77808 : 04667508 : 8524014 Test Package : IND 2

Recieved Diagnosed Diagnostician

: 11 Mar 2019 : 12 Mar 2019 : Don Baldridge

2162 REISER AVE SE NEW PHILADELPHIA, OH

US 44663

Contact: Service Manager

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)

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