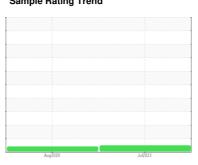


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



1618155 (S/N 1273)

Component

Compressor

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

| DIAGN | 10 - 10 |
|--------|---------|
| DIAGIN | |

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count on this sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

| | | | Aug2020 | Jul2023 | | |
|-----------------|--------|--------------|------------|-------------|----------------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KCPA004317 | KCP16762 | |
| Sample Date | | Client Info | | 06 Jul 2023 | 03 Aug 2020 | |
| Machine Age | hrs | Client Info | | 37991 | 33048 | |
| Oil Age | hrs | Client Info | | 0 | 6288 | |
| Oil Changed | | Client Info | | N/A | Changed | |
| Sample Status | | | | NORMAL | ATTENTION | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 0 | 3 | |
| Chromium | ppm | ASTM D5185m | >10 | 0 | <1 | |
| Nickel | ppm | ASTM D5185m | >3 | 0 | <1 | |
| Titanium | ppm | ASTM D5185m | >3 | 0 | <1 | |
| Silver | ppm | ASTM D5185m | >2 | <1 | 3 | |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | 3 | |
| Lead | ppm | ASTM D5185m | >10 | <1 | <1 | |
| Copper | ppm | ASTM D5185m | >50 | 14 | 15 | |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | |
| Antimony | ppm | ASTM D5185m | | | 1 | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 10 | |
| Barium | ppm | ASTM D5185m | 90 | 1 | 2 | |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | |
| Magnesium | ppm | ASTM D5185m | 100 | <1 | 6 | |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 25 | |
| Phosphorus | ppm | ASTM D5185m | 0 | 0 | 34 | |
| Zinc | ppm | ASTM D5185m | 0 | 3 | 14 | |
| Sulfur | ppm | ASTM D5185m | 23500 | 20328 | 15814 | |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | 6 | |
| Sodium | ppm | ASTM D5185m | | 0 | 1 | |
| Potassium | ppm | ASTM D5185m | >20 | <1 | <1 | |
| Water | % | ASTM D6304 | >0.05 | 0.006 | 0.006 | |
| ppm Water | ppm | ASTM D6304 | >500 | 64.9 | 60.0 | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | | 14296 | |
| Particles >6µm | | ASTM D7647 | >1300 | | <u>^</u> 2409 | |
| Particles >14μm | | ASTM D7647 | >80 | | 60 | |
| Particles >21µm | | ASTM D7647 | >20 | | 9 | |
| Particles >38μm | | ASTM D7647 | >4 | | 0 | |
| Particles >71μm | | ASTM D7647 | >3 | | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | | ▲ 18/13 | |
| FLUID DEGRADA | NOITA | method | limit/base | current | history1 | history2 |



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: 05903301 : 10564657

: KCPA004317

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jul 2023 Diagnosed : 24 Jul 2023 Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: KF, PrtCount)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

THE NEW FIREWALL FORWARD LLC

5212 CESSNA DR LOVELAND, CO US 80538

Contact: F SZYMANSKI

fszymanski@thenewfirewallforward.com

T: F:

Report Id: NEWLOVCO [WUSCAR] 05903301 (Generated: 07/24/2023 10:37:03) Rev: 1

Contact/Location: F SZYMANSKI - NEWLOVCO