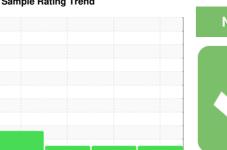


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

SULLAIR 201402060005 - PLY-GEM

Compressor

PG-32 (5 GAL)

Recommendation

Resample at the next service interval to monitor.

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.

| Sample Date | | | | | | | |
|---|---------------|--------|-------------|------------|-------------|-------------|-------------|
| Sample Date | SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Machine Age hrs Client Info 71910 67496 40336 Oil Age hrs Client Info 2374 7741 7092 Oil Changed Client Info Not Changd Not Changd Not Changd Sample Status Normal NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 -1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 <1 | Sample Number | | Client Info | | WC0923285 | WC0874228 | WC0481539 |
| Dil Age | Sample Date | | Client Info | | 21 Jun 2024 | 18 Dec 2023 | 06 Nov 2020 |
| Oil Changed Sample Status Client Info Not Changd NORMAL Not Changd NoRMAL | Machine Age | hrs | Client Info | | 71910 | 67496 | 40336 |
| NORMAL NORMAL NORMAL NORMAL NORMAL | Oil Age | hrs | Client Info | | 2374 | 7741 | 7092 |
| CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 <1 0 0 Aluminum ppm ASTM D5185m >25 <1 0 0 Lead ppm ASTM D5185m >50 2 2 <1 0 Copper ppm ASTM D5185m >50 2 2 <1 0 Calcadum ppm ASTM D5185m 0 <1 | Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 <1 | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >25 <1 0 0 Aluminum ppm ASTM D5185m >25 <1 0 0 Lead ppm ASTM D5185m >25 0 0 3 Copper ppm ASTM D5185m >50 2 2 <1 0 Antimony ppm ASTM D5185m >15 0 <1 0 Vanadium ppm ASTM D5185m 0 <1 0 <1 0 Cadmium ppm ASTM D5185m < | CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Iron | Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m <1 0 2 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 <1 0 0 Lead ppm ASTM D5185m >25 0 0 3 Copper ppm ASTM D5185m >50 2 2 2 <1 Antimony ppm ASTM D5185m -50 2 2 2 <1 Antimony ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 <1 0 0 Cadmium ppm ASTM D5185m 0 <1 0 <1 Barium ppm ASTM D5185m <1 0 <1 <1 <th>WEAR METALS</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th> | WEAR METALS | | method | limit/base | current | history1 | history2 |
| Nickel | Iron | ppm | ASTM D5185m | >50 | 0 | 0 | <1 |
| Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 <1 | Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 <1 | Nickel | ppm | ASTM D5185m | | <1 | 0 | 2 |
| Aluminum ppm ASTM D5185m >25 <1 0 0 Lead ppm ASTM D5185m >25 0 0 3 Copper ppm ASTM D5185m >50 2 2 <1 | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Lead | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Copper ppm ASTM D5185m >50 2 2 <1 Tin ppm ASTM D5185m >15 0 <1 | Aluminum | ppm | ASTM D5185m | >25 | <1 | 0 | 0 |
| Tin ppm ASTM D5185m >15 | Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 3 |
| Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1 0 <1 Barium ppm ASTM D5185m 433 356 495 Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m <1 0 <1 Calcium ppm ASTM D5185m <1 0 8 Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 25 <1 <1 1 CONTAMINANTS method limit/base current history1 history2 <tr< td=""><td>Copper</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th>2</th><td>2</td><td><1</td></tr<> | Copper | ppm | ASTM D5185m | >50 | 2 | 2 | <1 |
| Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1 0 <1 Barium ppm ASTM D5185m 433 356 495 Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m <1 0 <1 Calcium ppm ASTM D5185m <1 0 8 Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 1 | Tin | ppm | ASTM D5185m | >15 | 0 | <1 | 0 |
| Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1 | Antimony | ppm | ASTM D5185m | | | | 0 |
| ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m <1 | Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Boron ppm ASTM D5185m <1 0 <1 | Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium ppm ASTM D5185m 433 356 495 Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 4 0 <1 Calcium ppm ASTM D5185m <1 0 2 Phosphorus ppm ASTM D5185m 2 2 14 Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 1 Sodium ppm ASTM D5185m >20 6 58 30 Potassium ppm ASTM D5185m >20 6 2 10 | ADDITIVES | | method | limit/base | current | history1 | history2 |
| Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 4 0 <1 Calcium ppm ASTM D5185m <1 0 2 Phosphorus ppm ASTM D5185m <1 0 8 Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 1 Sodium ppm ASTM D5185m 56 58 30 Potassium ppm ASTM D5185m >20 6 2 10 | Boron | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 4 0 <1 | Barium | ppm | ASTM D5185m | | 433 | 356 | 495 |
| Magnesium ppm ASTM D5185m 4 0 <1 Calcium ppm ASTM D5185m <1 0 2 Phosphorus ppm ASTM D5185m <1 0 8 Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 <1 1 Sodium ppm ASTM D5185m 56 58 30 Potassium ppm ASTM D5185m >20 6 2 10 | Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Calcium ppm ASTM D5185m <1 0 2 Phosphorus ppm ASTM D5185m <1 0 8 Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 | Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Phosphorus ppm ASTM D5185m <1 0 8 Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 | Magnesium | ppm | ASTM D5185m | | 4 | 0 | <1 |
| Zinc ppm ASTM D5185m 2 2 14 Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 | Calcium | ppm | ASTM D5185m | | <1 | 0 | 2 |
| Sulfur ppm ASTM D5185m 683 273 231 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 | Phosphorus | ppm | ASTM D5185m | | <1 | 0 | 8 |
| CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 | Zinc | ppm | ASTM D5185m | | 2 | 2 | 14 |
| Silicon ppm ASTM D5185m >25 <1 | Sulfur | ppm | ASTM D5185m | | 683 | 273 | 231 |
| Sodium ppm ASTM D5185m 56 58 30 Potassium ppm ASTM D5185m >20 6 2 10 | CONTAMINANT | S | method | limit/base | current | history1 | history2 |
| Potassium ppm ASTM D5185m >20 6 2 10 | Silicon | ppm | ASTM D5185m | >25 | <1 | <1 | 1 |
| | Sodium | ppm | ASTM D5185m | | 56 | 58 | 30 |
| FLUID DEGRADATION method limit/base current history1 history2 | Potassium | ppm | ASTM D5185m | >20 | 6 | 2 | 10 |
| | FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |

Acid Number (AN)

mg KOH/g ASTM D8045

0.37

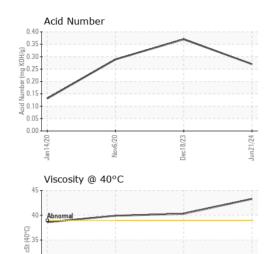
0.27

0.289



25

OIL ANALYSIS REPORT



| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERT | TES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | | 43.3 | 40.3 | 39.9 |

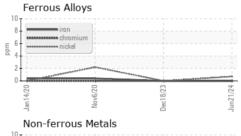
Color

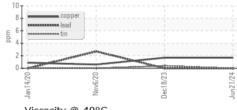


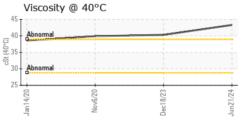
SAMPLE IMAGES

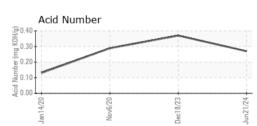
















Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: WC0923285 Lab Number : 06219808 Unique Number : 11098005

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024 **Tested** : 26 Jun 2024

: 27 Jun 2024 - Don Baldridge Diagnosed

US 27409 Contact: Dallas Burcham dallas.burcham@fs-compression.com

FS-COMPRESSION CO, LLC

203 AERO COURT

T: (336)605-9622

F: (336)605-9844

GREENSBORO, NC

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)

Contact/Location: Dallas Burcham - AIRGREWC