

OIL ANALYSIS REPORT



CS-46 [PM3-3365247] ATLAS COPCO All365186H - BNSF RAILWAY Component Compressor

Sample Rating Trend



DIAGNOSIS

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 INFORM | MATION | method | limit/base | current | history1 | history2 |
|---------------|--------|------------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | UCH06196772 | UCH06018266 | UCH05706089 |
| Sample Date | | Client Info | | 08 May 2024 | 02 Nov 2023 | 15 Nov 2022 |
| Machine Age | hrs | Client Info | | 28381 | 24181 | 21299 |
| Oil Age | hrs | Client Info | | 3385 | 2952 | 1806 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINATION | ٧ | 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 | <1 | <1 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >25 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 1.5 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | <1 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | 0.3 | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | 0 | 1 |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | 406 | 247 | 252 | 420 |
| Zinc | ppm | ASTM D5185m | 0 | 126 | 38 | 16 |
| Sulfur | ppm | ASTM D5185m | 1283 | 468 | 533 | 0 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 1 | 1 | 1 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 1 | 0 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| | | 4 OT1 4 D 00 4 F | | | | |

Acid Number (AN)

mg KOH/g ASTM D8045 0.463

0.27

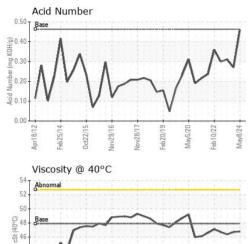
0.46

0.31



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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 PROPERTIES | | method | limit/base | current | history1 | history2 |
| T LOID I NOI LIN | ILO | metriou | mmil base | Current | riistory i | HISTOLYZ |
| Visc @ 40°C | cSt | ASTM D445 | 47.9 | 46.8 | 46.7 | 46.4 |

Visc @ 40°C

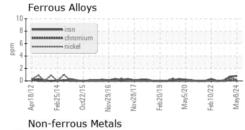
SAMPLE IMAGES

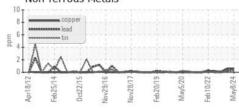
Color

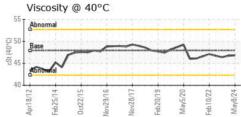
Bottom

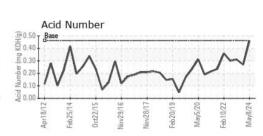
















Laboratory Sample No.

: UCH06196772 Lab Number : 06196772 Unique Number : 11058895

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024 **Tested** : 03 Jun 2024

Diagnosed : 03 Jun 2024 - Doug Bogart

Test Package : IND 2 Certificate 12367 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)

CISCO AIR SYSTEMS

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Report Id: UCCISSAC [WUSCAR] 06196772 (Generated: 06/04/2024 07:10:04) Rev: 1

Contact/Location: BARRY FRKOVICH - UCCISSAC