



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
SENNEBOGEN 825M 825.0.3784

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0210011 | JR0194948 | JR0195094 |
| Sample Date | | Client Info | | 18 Apr 2024 | 15 Feb 2024 | 05 Dec 2023 |
| Machine Age | hrs | Client Info | | 3114 | 2592 | 2085 |
| Oil Age | hrs | Client Info | | 2592 | 0 | 0 |
| Filter Age | hrs | Client Info | | 2592 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 21 | 14 | 16 |
| Iron | ppm | ASTM D5185m | >20 | 4 | 2 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 2 | 2 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 6 | 5 | 5 |
| Tin | ppm | ASTM D5185m | >10 | 1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

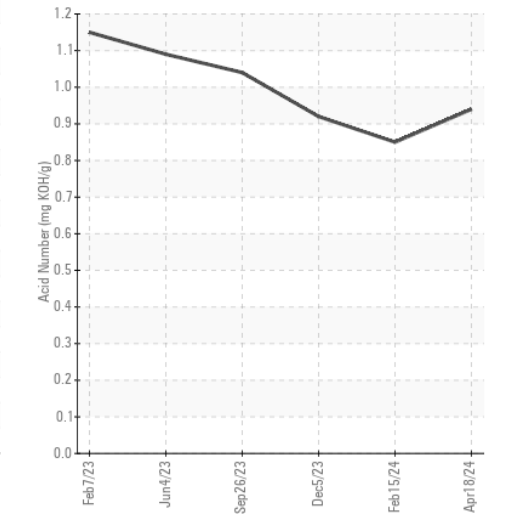
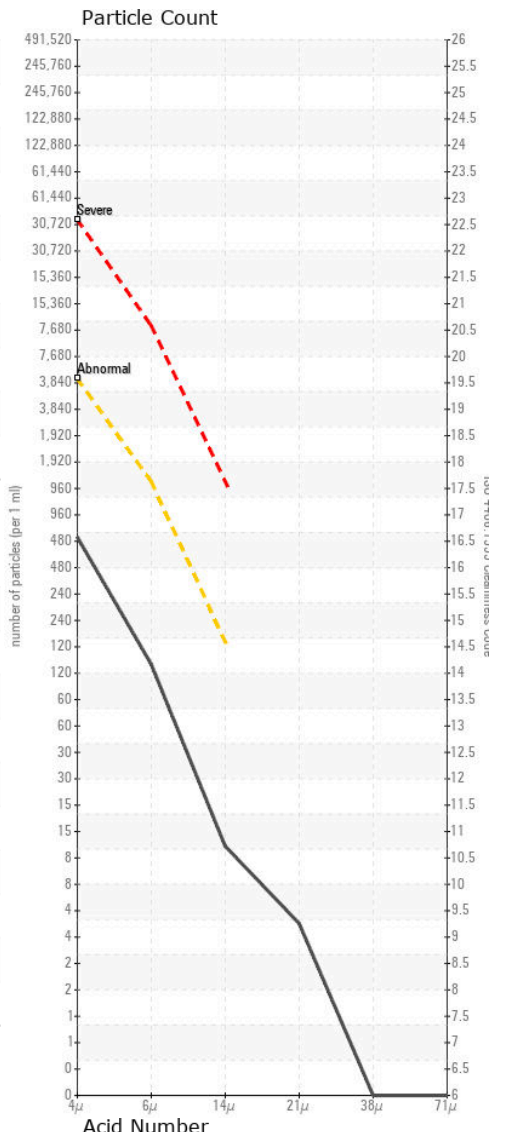
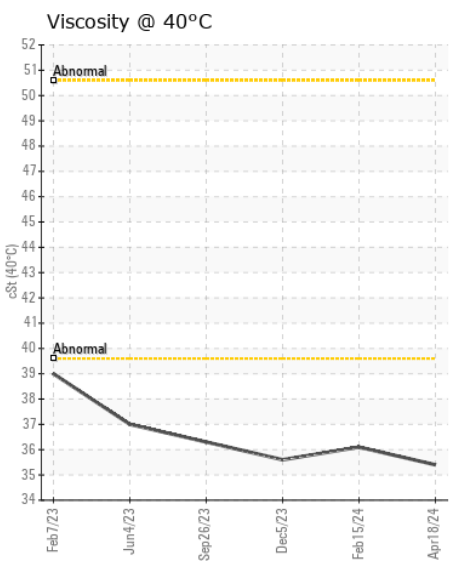
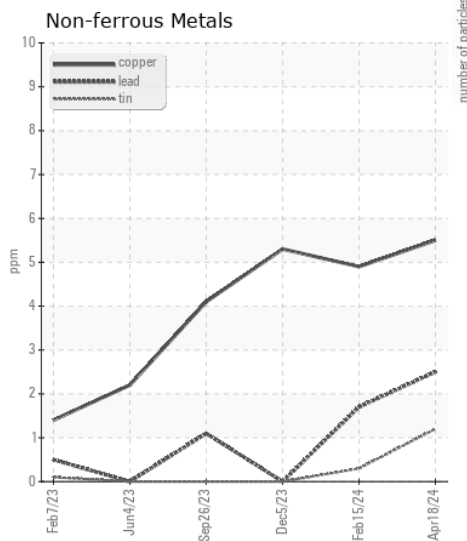
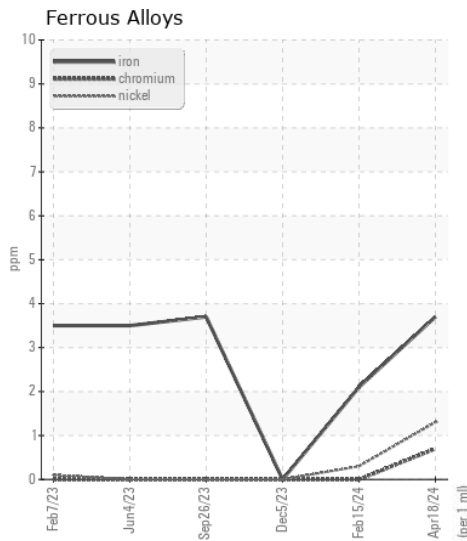
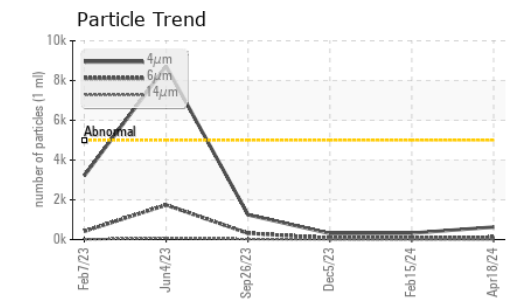
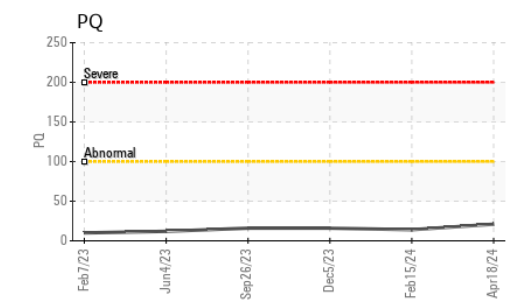
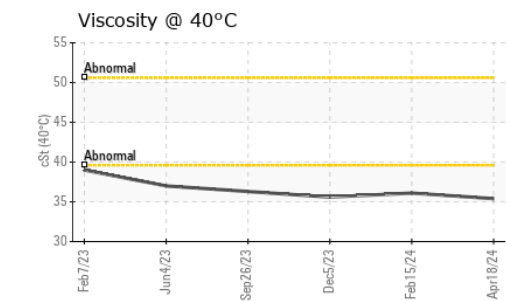
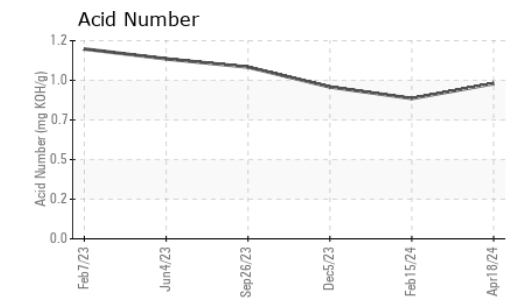
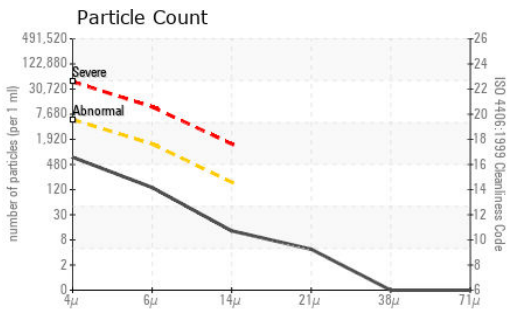
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 3 | 1 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | 0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 629 | 323 | 304 |
| Particles >6µm | | ASTM D7647 | >1300 | 119 | 101 | 80 |
| Particles >14µm | | ASTM D7647 | >160 | 11 | 8 | 10 |
| Particles >21µm | | ASTM D7647 | >40 | 4 | 2 | 5 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 16/14/11 | 16/14/10 | 15/13/10 |
| 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 |

FLUID CONDITION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|-------------|-----------|--------------|----------|----------|
| Sodium | ppm | ASTM D5185m | | 2 | 5 | 5 |
| Boron | ppm | ASTM D5185m | | 2 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 5 | 4 | 2 |
| Calcium | ppm | ASTM D5185m | | 1147 | 1013 | 1158 |
| Phosphorus | ppm | ASTM D5185m | | 600 | 551 | 610 |
| Zinc | ppm | ASTM D5185m | | 584 | 547 | 627 |
| Sulfur | ppm | ASTM D5185m | | 2641 | 2106 | 2372 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.94 | 0.85 | 0.92 |
| Visc @ 40°C | cSt | ASTM D445 | | 35.4 | 36.1 | 35.6 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0210011

Lab Number : 06159765

Unique Number : 10995188

Test Package : CONST (Additional Tests: PQ)

Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 25 Apr 2024 - Wes Davis

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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