James River Equipment

OIL ANALYSIS REPORT

| | |
|---|---|
| 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.

## WEAR

All component wear rates are normal.

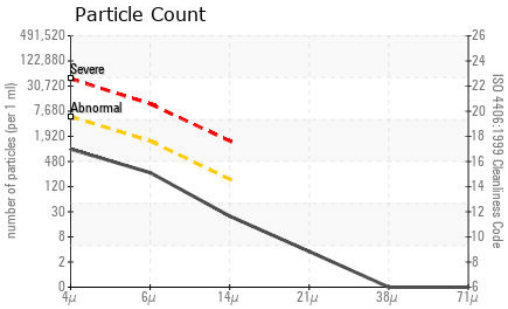
## CONTAMINATION

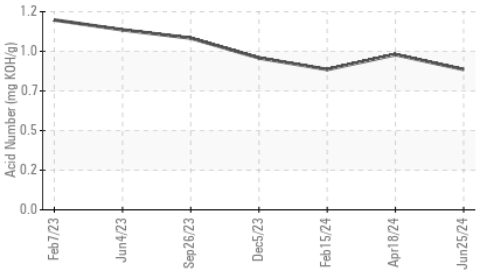
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

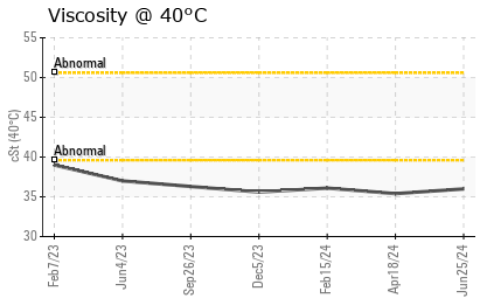
## FLUID CONDITION

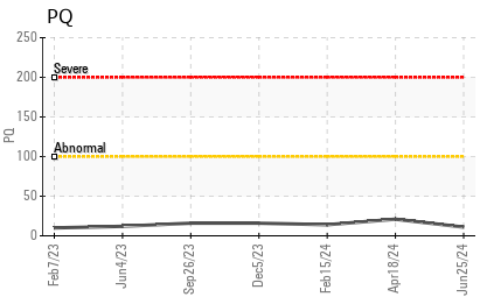
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

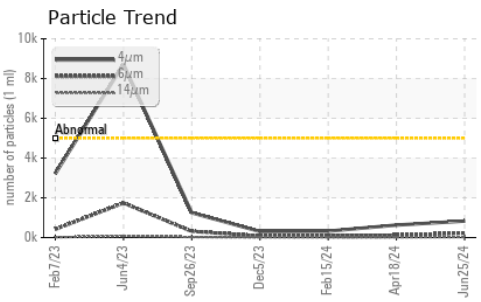
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **JR0221386** | JR0210011 | JR0194948 |
| Sample Date | | Client Info | | **25 Jun 2024** | 18 Apr 2024 | 15 Feb 2024 |
| Machine Age | hrs | Client Info | | **3689** | 3114 | 2592 |
| Oil Age | hrs | Client Info | | **3114** | 2592 | 0 |
| Filter Age | hrs | Client Info | | **0** | 2592 | 0 |
| Oil Changed | | Client Info | | **N/A** | N/A | Not Changd |
| Filter Changed | | Client Info | | **N/A** | N/A | Not Changd |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |
| PQ | | ASTM D8184 | | **11** | 21 | 14 |
| Iron | ppm | ASTM D5185m | >20 | **3** | 4 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | **0** | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | **0** | 1 | <1 |
| Titanium | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | **<1** | 2 | <1 |
| Lead | ppm | ASTM D5185m | >10 | **<1** | 2 | 2 |
| Copper | ppm | ASTM D5185m | >75 | **6** | 6 | 5 |
| Tin | ppm | ASTM D5185m | >10 | **0** | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | | **0** | <1 | 0 |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >20 | **1** | 3 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | **1** | 2 | <1 |
| Water | | WC Method | >0.1 | **NEG** | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | **831** | 629 | 323 |
| Particles >6µm | | ASTM D7647 | >1300 | **228** | 119 | 101 |
| Particles >14µm | | ASTM D7647 | >160 | **21** | 11 | 8 |
| Particles >21µm | | ASTM D7647 | >40 | **3** | 4 | 2 |
| Particles >38µm | | ASTM D7647 | >10 | **0** | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | **0** | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | **17/15/12** | 16/14/11 | 16/14/10 |
| 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 |
| Sodium | ppm | ASTM D5185m | | **4** | 2 | 5 |
| Boron | ppm | ASTM D5185m | | **<1** | 2 | 0 |
| Barium | ppm | ASTM D5185m | | **0** | <1 | <1 |
| Molybdenum | ppm | ASTM D5185m | | **0** | 1 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | **3** | 5 | 4 |
| Calcium | ppm | ASTM D5185m | | **1060** | 1147 | 1013 |
| Phosphorus | ppm | ASTM D5185m | | **638** | 600 | 551 |
| Zinc | ppm | ASTM D5185m | | **561** | 584 | 547 |
| Sulfur | ppm | ASTM D5185m | | **2555** | 2641 | 2106 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.85** | 0.94 | 0.85 |
| Visc @ 40°C | cSt | ASTM D445 | | **36.0** | 35.4 | 36.1 |

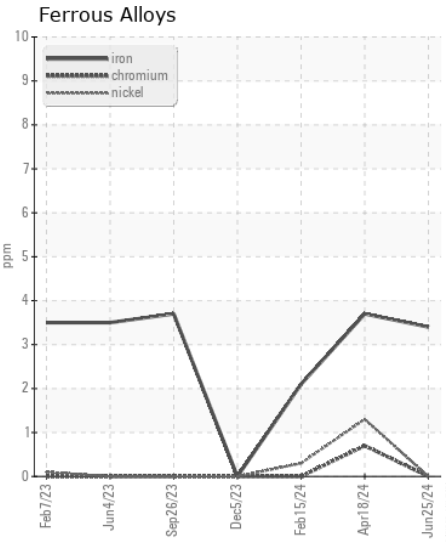


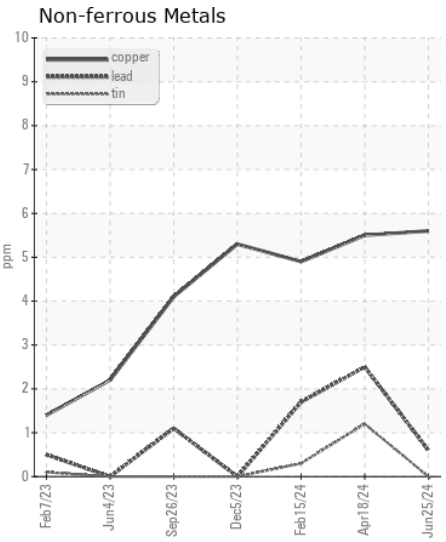



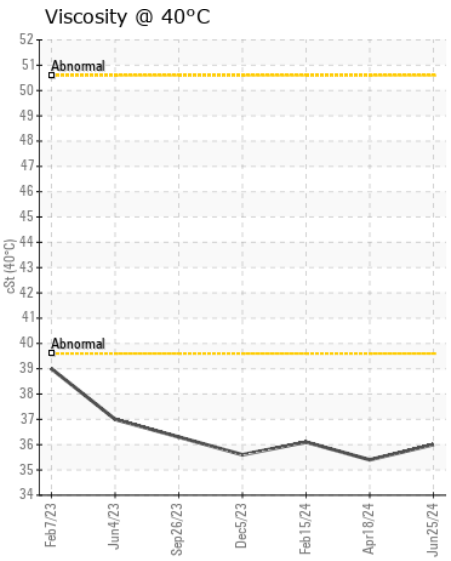



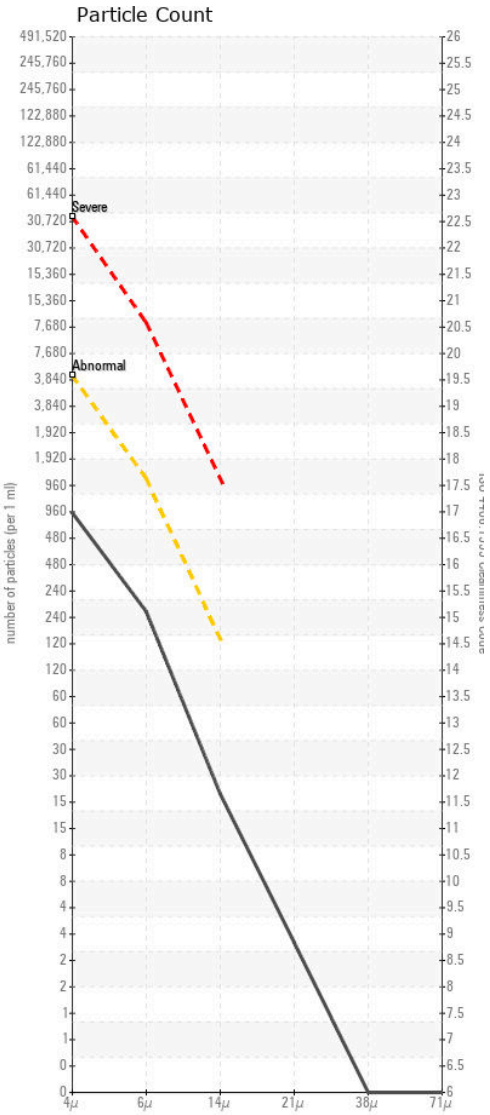



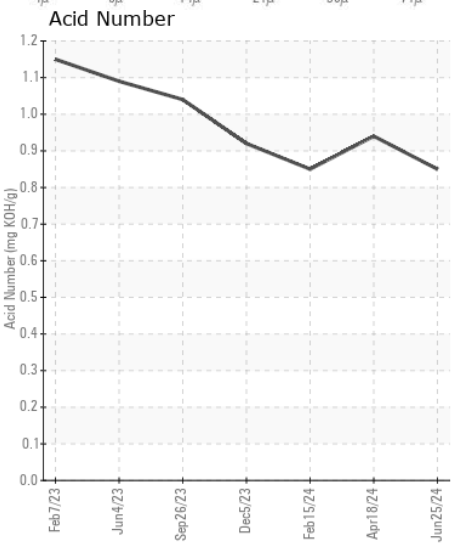




ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

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|---|---|---|---|
| **Laboratory** | : WearCheck USA - 501 Madison Ave., Cary, NC 27513 | | |
| **Sample No.** | : JR0221386 | **Received** | : 26 Jun 2024 |
| **Lab Number** | : 06221078 | **Tested** | : 27 Jun 2024 |
| **Unique Number** | : 11099275 | **Diagnosed** | : 27 Jun 2024 - Wes Davis |
| **Test Package** | : CONST ( Additional Tests: PQ ) | | |

*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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