# OIL ANALYSIS REPORT

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

Area
**AMR-St Louis**
Machine Id
**574177 SENNEBOGEN 840M 804.0.1020**
Component
**Front Differential**
Fluid
**SHELL SPIRAX HD 80W90 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

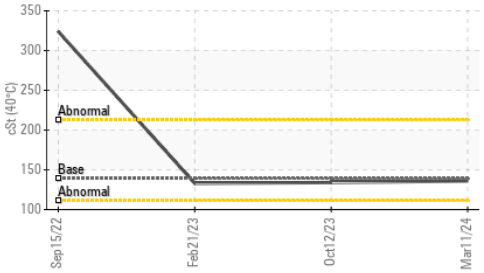
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | DJJ0020672 | DJJ0019256 | DJJ0012427 |
| Sample Date | | Client Info | | 11 Mar 2024 | 12 Oct 2023 | 21 Feb 2023 |
| Machine Age | hrs | Client Info | | 20641 | 20128 | 19063 |
| Oil Age | hrs | Client Info | | 500 | 2000 | 1000 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Changed | Changed |
| Filter Changed | | Client Info | | N/A | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >500 | 5 | <1 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >100 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >75 | 2 | <1 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 1 | <1 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| 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 | >.2 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | 0 | 4 | <1 |
| Boron | ppm | ASTM D5185m | 234 | 283 | 254 | 291 |
| Barium | ppm | ASTM D5185m | 0.1 | 0 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0.0 | <1 | 15 | <1 |
| Calcium | ppm | ASTM D5185m | 0.4 | 16 | 19 | 6 |
| Phosphorus | ppm | ASTM D5185m | 864 | 1017 | 1060 | 1091 |
| Zinc | ppm | ASTM D5185m | 0.6 | 2 | 0 | 3 |
| Sulfur | ppm | ASTM D5185m | 16893 | 20631 | 19618 | 19458 |
| Visc @ 40°C | cSt | ASTM D445 | 139 | 136 | 134 | 133 |

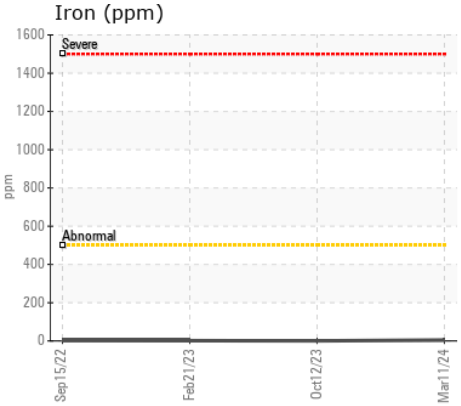
Report Id: ADVSTL [WUSCAR] 06121791 (Generated: 03/19/2024 17:35:47) Rev: 1

Contact/Location: JEANETTE VAGO - ADVSTL

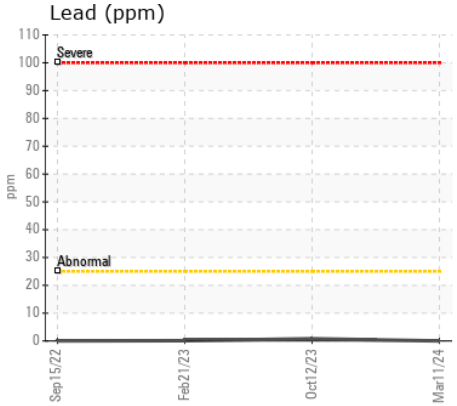
Viscosity @ 40°C



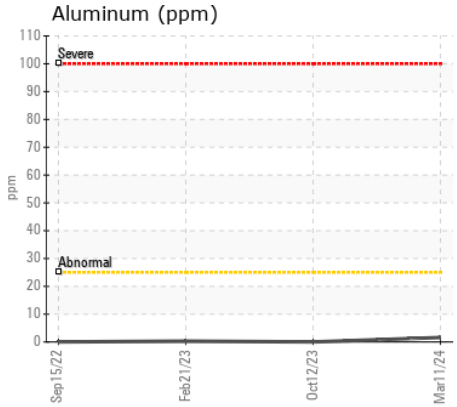

Iron (ppm)



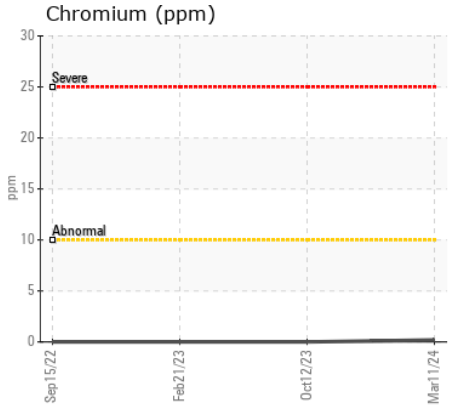

Lead (ppm)



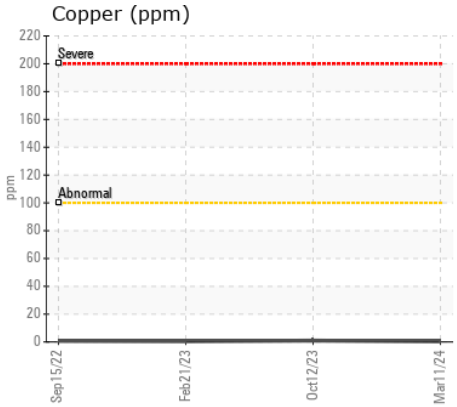

Aluminum (ppm)



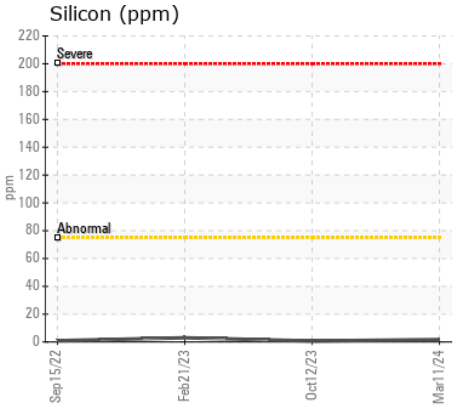

Chromium (ppm)



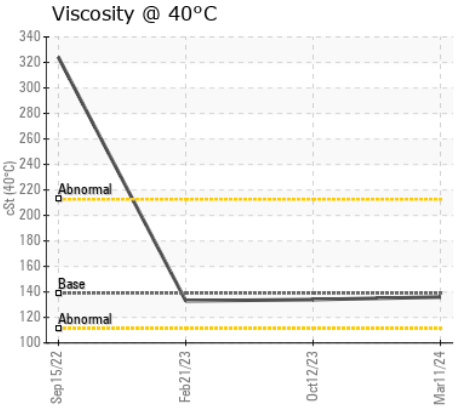

Copper (ppm)



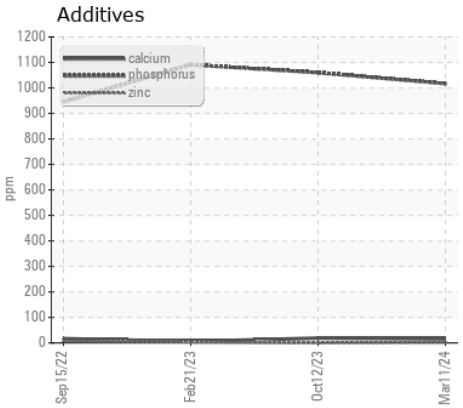

Silicon (ppm)




Viscosity @ 40°C




Additives




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : DJJ0020672
**Lab Number** : 06121791
**Unique Number** : 10935942
**Test Package** : MOBCE

**Received** : 18 Mar 2024
**Tested** : 19 Mar 2024
**Diagnosed** : 19 Mar 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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