



OIL ANALYSIS REPORT

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

Area
AMR-St Louis
 Machine Id
574183 SENNEBOGEN 840M 85001185
 Component
Left Swing Drive
 Fluid
SHELL OMALA 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DJJ0020770 | DJJ0020676 | DJJ0012657 |
| Sample Date | | Client Info | | 29 Jan 2024 | 13 Oct 2023 | 20 Dec 2022 |
| Machine Age | hrs | Client Info | | 9415 | 8892 | 7257 |
| Oil Age | hrs | Client Info | | 2000 | 1500 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Changed |
| Filter Changed | | Client Info | | N/A | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron | ppm | ASTM D5185m | >400 | 14 | 4 | 103 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | 0 | 2 |
| Lead | ppm | ASTM D5185m | >50 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >200 | 6 | 2 | 126 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 6 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

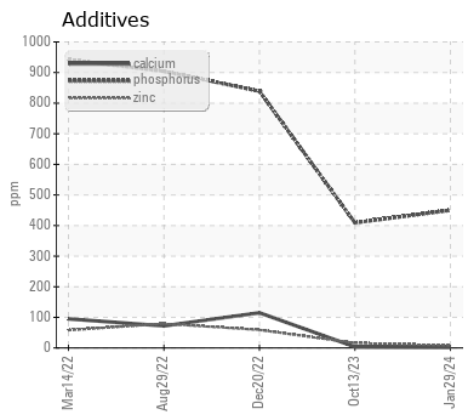
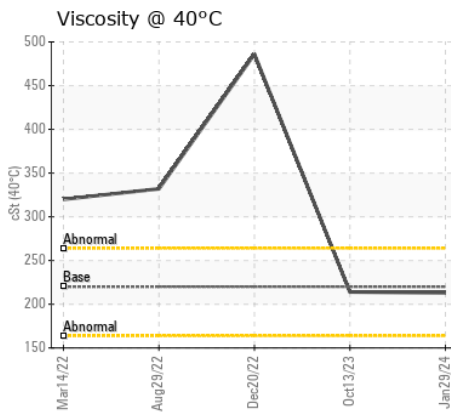
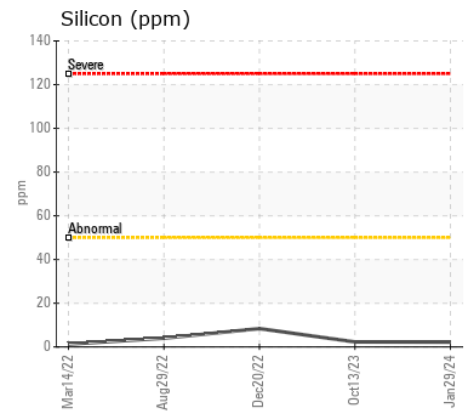
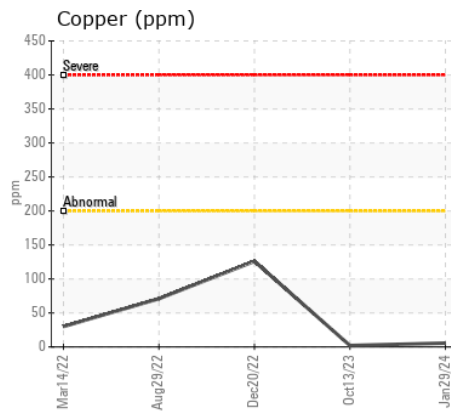
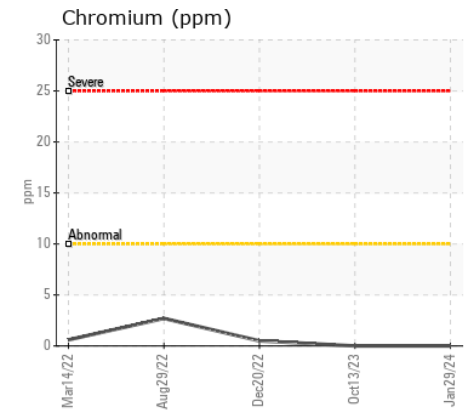
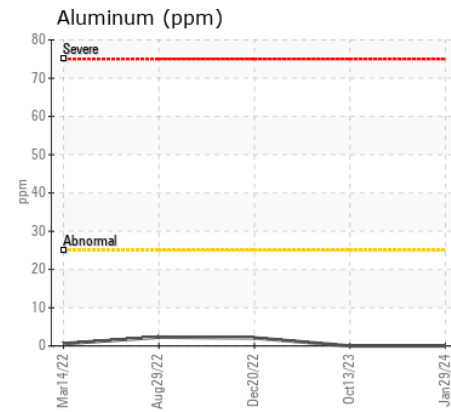
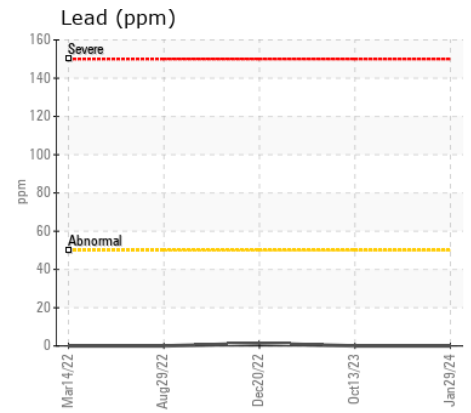
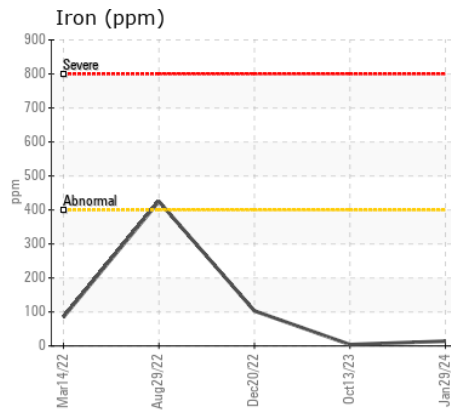
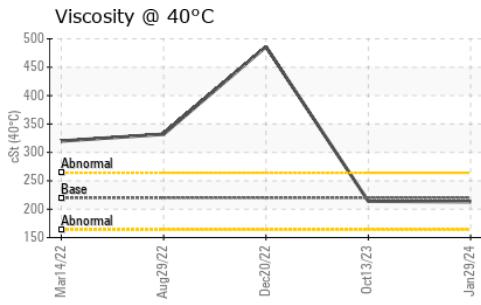
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|---------|
| Silicon | ppm | ASTM D5185m | >50 | 2 | 2 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | MODER |
| Debris | scalar | *Visual | NONE | NONE | NONE | ▲ MODER |
| 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 | >0.2 | NEG | NEG | 0.2% |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|------|--------------|------|-------|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 4 |
| Boron | ppm | ASTM D5185m | 4.4 | 22 | 17 | 179 |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | 3 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | <1 | 2 | 15 |
| Calcium | ppm | ASTM D5185m | 0 | 2 | 4 | 115 |
| Phosphorus | ppm | ASTM D5185m | 215 | 450 | 409 | 839 |
| Zinc | ppm | ASTM D5185m | 0 | 8 | 16 | 59 |
| Sulfur | ppm | ASTM D5185m | 7039 | 6385 | 5407 | 19124 |
| Visc @ 40°C | cSt | ASTM D445 | 220 | 213 | 214 | ▲ 486 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0020770
Lab Number : 06105569
Unique Number : 10903799
Test Package : MOBCE

Received : 29 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 01 Mar 2024 - Wes Davis

ADVANTAGE METALS RECYCLING - ST LOUIS
 5 N MARKET
 ST LOUIS, MO
 US 63102
 Contact: JEANETTE VAGO
 jeanette.vago@advantagerecycling.com

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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