



MINNESOTA STREETCAR MUSEUM

2024 Annual Members Meeting
Chief Mechanical Officer Report

March 2024





2023 CHSL Mechanical Report

TCRT 1300

The car was called upon to support all CHSL operations (regular service, special events, charters) during the last half of the 2023 operating season.

In addition to some normal maintenance issues, the Maintenance Crew resolved a perplexing oil leak problem on one journal bearing.

Annual maintenance work has been completed on the car. No major problems were found. It is ready to support the upcoming seasons including training, regular service, charters, and special events.

TCRT 322

Dennis Stephens recently prepared an excellent report documenting the repairs that were completed on both of TCRT 322's trucks. Aaron will present this report later in the meeting.



2023 CHSL Mechanical Report (cont.)

TCRT 1239

New journal bearings are cast and machined for the new trucks. Suspension bearings from 100-year-old Canadian motors we bought from Halton County Radial were melted down to supply material for the new journal bearings. We could not use those bearings on the new truck project for dimensional reasons.

We are awaiting bids to machine new bull and pinion gears.

New springs are designed and manufactured.

Work is progressing on the new frame that will replicate the Baldwin #5 trucks originally installed on the car.



2023 CHSL Mechanical Report (cont.)

TCRT 1239 Frame Reconstruction





2023 ESL Mechanical Report

DSR 78

The car supported all ESL operations (regular service, special events, charters) during the last half of the 2023 operating season. Annual maintenance work was completed on the car. No major problems were found. It is ready to support the upcoming season including training, regular service, charters, and special events.

MVPS (Winona) 10

The car successfully completed its “maiden voyage” with a rebuilt motor on August 22, 2023. Currently, we do not know when the car will return to service.

MESABA 10

Additional clean out work was done on Mesaba 10 in preparation for starting some restoration work. Unfortunately, due to the priority of completing restoration work on DSR 265, work on Mesaba 10 is suspended for the foreseeable future. The long-term plan continues to be to restore sections of the car as a part of creating a display to show our patrons how our on-going restoration process happens.

FARGO-MOREHEAD 28

The car is in long-term storage at a storage shed in Watertown, MN. Considering other museum-wide priorities, plans for the restoration of this car are on hold.



2023 ESL Mechanical Report

DSR 265

Restoration work on the rear vestibule continues. The new structural framework is complete. Replacement roof boards and siding are now being installed.

The following pictures show some of the steps in the restoration process.

ACCIDENT DAMAGE





2023 ESL Mechanical Report (cont.)

ACCIDENT DAMAGE (Rear & Interior Views)





2023 ESL Mechanical Report (cont.)

REMOVING ROOF BOARDS





2023 ESL Mechanical Report (cont.)

REMOVING TOP SILL & INSTALLING BOTTOM PLATE





2023 ESL Mechanical Report (cont.)

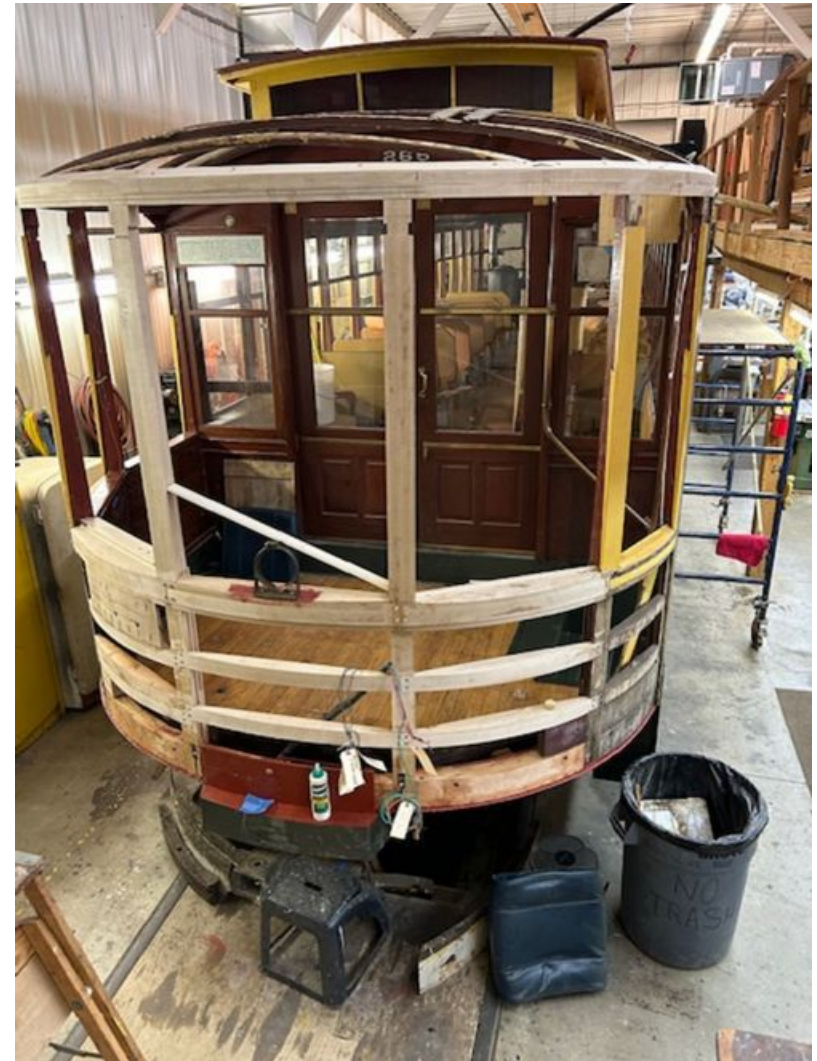
INSTALLING NEW UPPER SILL





2023 ESL Mechanical Report (cont.)

UPPER SILL INSTALLED----LOWER SILL AND SPREADERS INSTALLED





2023 ESL Mechanical Report (cont.)

INSTALLING NEW ROOF BOARDS AND PAINTED CANVAS ROOF

