

Review the M-963-84 specification for Journal Box Lubricating Oil

Abstract –

- AAR M-963-84 is an All Year Journal Box Lubricating (JB) Oil specification which has last been revised in 1984
- D50E14 is a Traction Motor Support Bearing (TMSB) Oil specification for General Electric traction motor support bearings
- EMS 1002 is a Traction Motor Support Bearing (TMSB) Oil specification for EMD traction motor support bearings

Background –

- Many TMSB oils carry the D50E14 and EMS 1002 specifications for TMSBs, as well as the AAR M-963-84 specification for JBs. This allows for multiple uses in traction motors as well as journal boxes
- An oil carrying only AAR M-963-84 specification should only be used in Journal Box Lubrication and has led to at least one reported failure in a wick fed TMSB
- This led to a request for “modification” of the AAR M-963-84 specification

Conclusion –

- The M-963-84 JB Oil specification will be reviewed
- Compatibility testing is being conducted and results are discussed

Recommendation –

- Recommendations will be submitted to the AAR for consideration. Tune in this fall



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Fuel, Lube, and Environmental Committee 2019

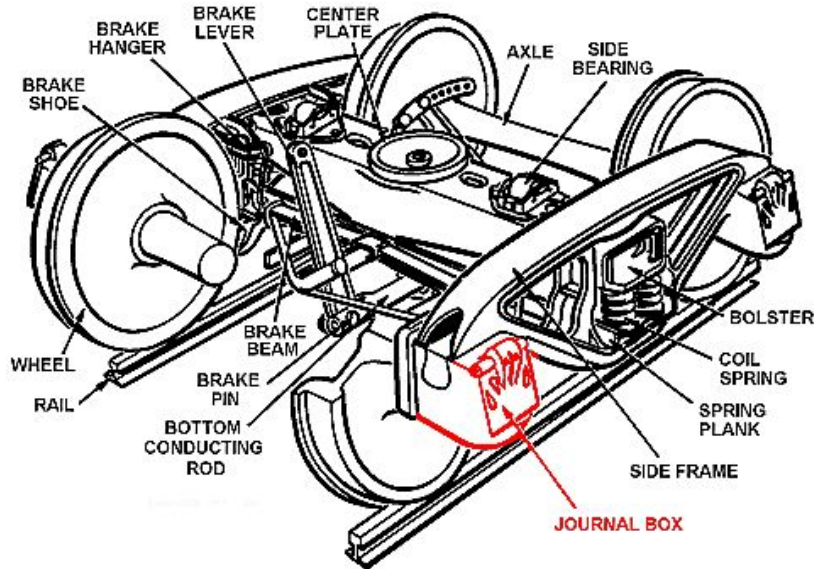


Review the M-963-84 specification for Journal Box Lubricating Oil

Freight Car Journal Box (JB)

AAR M-963 is required

“D50E14, EMS 1002, AAR M-963” oil is acceptable

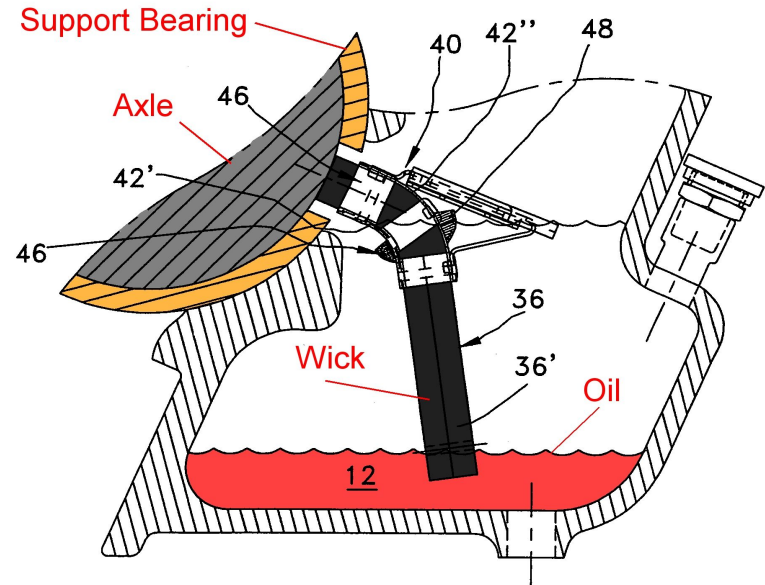


Traction Motor Support Bearing (TMSB)

D50E14 or EMS 1002 is required

“D50E14, EMS 1002, AAR M-963” oil is acceptable

“AAR M-963” (only) oil is NOT acceptable



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