

## JOURNAL ROLLER BEARING GREASE

### Specification M-942

Adopted: 1975; Last Revised: 2012

#### 1.0 SCOPE

This specification covers the lubrication of grease-filled freight car roller bearing/grease seal combinations that are not lubricated in the field. Lubrication grease used in current interchange service shall be formulated for a minimum life of 500,000 miles. The Wheels, Axles, Bearings, and Lubrication Committee (hereafter referred to as the Committee) shall approve any grease proposed for use in freight car roller bearings (Specification M-934) for interchange service.

#### 2.0 APPROVAL PROCESS

**2.1** Any individual desiring certification of roller bearing grease shall make written application to the AAR. This application will include the location and schedule of laboratory tests for the certificate of analysis (COA). An AAR observer will witness the vibration test described in paragraph 4.2.5. At the discretion of the Committee, an AAR observer may be required to witness other tests. The COA is comprised of the specifications listed in paragraph 4.0, with the exception of paragraph 4.2.4, "Field service test." The COA shall be submitted to the Committee when complete.

**2.2** If the Committee accepts review of the COA, the applicant will be authorized to contact the AAR to make arrangements for the field service test (paragraph 4.2.4), outlined in Appendix D. The AAR will provide the applicant with information concerning the testing schedule, grease sample size required (200 lb) and fee(s) for testing. The applicant will be allowed reasonable observation of the test and will be furnished a copy of the results after completion.

**2.3** The Committee will review the test results and advise the applicant as to the grease's approval. Once approved, no chemical composition or properties of the grease may be changed without Committee approval. Evidence of unauthorized changes will be sufficient cause for approval withdrawal. In addition, the grease manufacturer must meet the requirements of the *AAR Manual of Standards and Recommended Practices*, Section J, Specification M-1003, "Quality Assurance."

**2.4** If not approved, the field service test samples will be held for 14 days from the date of the Committee's ruling. The applicant may make a claim to the Committee for a rehearing during this time.

#### 3.0 BASIC GREASE REQUIREMENTS

The grease shall be composed of a fluid lubricant and a thickening agent. The fluid component may be a mineral oil or synthetic fluid and the thickener a metallic soap(s) or non-soap substance. The use of viscosity index improvers and bentonites or other clay materials is prohibited. The grease shall be formulated to meet the following requirements:

**3.1** Reduce friction and protect bearing components against wear.

**3.2** Protect against corrosion caused by moisture accumulated in bearings from condensation.

**3.3** Have suitable oxidation resistance in field use.

**3.4** Be compatible with bearing seals and bearing materials in that they do not degrade their performance.

**3.5** Be free of abrasive/foreign matter and be tolerant of some degree of contamination without adversely affecting performance.

# Manual Of Standards And Recommended Practices

**Liying Dong**



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