

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.

Aar Manual Of Standards And Recommended Practices

**United States. Congress. Senate.
Committee on Commerce, Science,
and Transportation. Subcommittee on
Surface Transportation**

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Code of Federal Regulations, 1999 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries *Code of Federal Regulations, Title 49, Transportation, PT. 100-177, Revised as of October 1, 2011* U S Office of the Federal Register, 2012-01-20 **The Code of Federal Regulations of the United States of America**, 1996 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government *Federal Register*, 2013 **Industrial Standardization and Commercial Standards Monthly**, 1940 *Title 49 Transportation Parts 100-177 (Revised as of October 1, 2013)* Office of The Federal Register, Enhanced by IntraWEB, LLC, 2013-10-01 49 CFR Transportation **Proceedings of the ... IEEE/ASME Joint Rail Conference**, 2007 Design and Simulation of Rail Vehicles Maksym Spiryagin, Colin Cole, Yan Quan Sun, Mitchell McClanachan, Valentyn Spiryagin, Tim McSweeney, 2014-05-13 Keep Up with Advancements in the Field of Rail Vehicle Design A thorough understanding of the issues that affect dynamic performance as well as more inventive methods for controlling rail vehicle dynamics is needed to meet the demands for safer rail vehicles with higher speed and loads Design and Simulation of Rail Vehicles examines the field of **Code of Federal Regulations, Title 49, Transportation, PT. 100-177, Revised as of October 1, 2012** U S Office of the Federal Register, 2013-01-08 The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government **Manuals Combined: Over 20 U.S. Army Locomotive, Rail Car And Railroad Trackage Manuals**, Over 4 100 total pages Just a sample of the contents 256 page Army TRAIN RAILROAD RAILCAR Manual FULL TITLE MAINTENANCE OF RAILWAY CARS Published by the Department of the Army on 28 August 1972 current 174 page U S Technical RAILROAD Design FULL TITLE Technical Instructions Railroad Design and Rehabilitation Published 1 March 2000 207 page U S Navy RAILROAD Handbook FULL TITLE NAVY RAILWAY OPERATING HANDBOOK 207 pages Published by the Department of the Navy June 1999 U S Army RAILROAD LOCOMOTIVE Operations Manual FULL TITLE RAILWAY OPERATING AND SAFETY RULES Published by the Department of the Army on 17 July 1989 139 page Army RAILROAD Rolling Stock Manual Six Lessons 139 pages on CD ROM FULL TITLE RAILWAY ROLLING STOCK Published by the Department of the Army on 1 June 1997 274 page B B 160 LOCOMOTIVE Operator Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 Published by the Department of the Army on 22 May 1991 268 page Army BALDWIN LIMA Locomotive Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 60 TON 500 HP 0 4 4 0 WHEEL MODEL RS 4 TC 1A Published by the Department of the Army on 8 January 1987 419 page Army GE B B 160 Locomotive Manual FULL TITLE INTERMEDIATE DIRECT SUPPORT AND INTERMEDIATE GENERAL SUPPORT MAINTENANCE

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Car and Locomotive Cyclopedia of American Practice ,1984

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web jan 12 2013 i notice that this wizard does not propose any framework sring hibernate and so on while the standard non maven project creation wizard do allow the choiche of the frameworks to include if we have a look at the project now here is what we see so the first question is why spring is already included even before that i ve explicitly added it

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web nov 21 2013 to make the above maven java web application project support the hibernate orm in spring framework add the following dependencies to the existing pom xml jstl spring webmvc and servlet api for spring support mysql connector java for mysql support spring jdbc for data access with jdbc spring spring orm for orm

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