

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

William J. Slattery



Aar Manual Of Standards And Recommended Practices:

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 DesignA 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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Guidebook for Implementing Passenger Rail Service on Shared Passenger and Freight Corridors Alan J. Bing, 2010 This Guidebook will aid states in developing public private partnerships with private freight railroads to permit operation of passenger services over shared use rail corridors The Guidebook should encourage the broad acceptance of improved principles processes and methods to support agreements on access allocation of operation and maintenance costs capacity allocation operational issues future responsibilities for infrastructure improvements and other fundamental issues that will affect the ultimate success of shared use passenger and freight agreements between public and private railroad stakeholders Reauthorization of the Federal Railroad Administration United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Railroads, 1998 Railroad accident report derailment of Burlington Northern and Santa Fe Railway Company intermodal freight train SCHILAC131, Crisfield, Kansas, September 2, 1998 , **Transportation, Parts 100 to 185** , 2011-02-25 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 **Code of Federal Regulations, Title 49, Transportation, Pt. 100-185, Revised as of October 1, 2009** Ofr, 2010-01-25 *An Index of U.S. Voluntary Engineering Standards* United States. National Bureau of Standards, 1971 **An Index of U.S. Voluntary Engineering Standards** William J. Slattery, 1971 **Wheel-Rail Interface Handbook** R. Lewis, U Olofsson, 2009-09-25 Many of the engineering problems of particular importance to railways arise at interfaces and the safety critical role of the wheel rail interface is widely acknowledged Better understanding of wheel rail interfaces is therefore critical to improving the capacity reliability and safety of the railway system Wheel rail interface handbook is a one stop reference for railway engineering practitioners and academic researchers Part one provides the fundamentals of contact mechanics wear fatigue and lubrication as well as state of the art research and emerging technologies related to the wheel rail interface and its management Part two offers an overview of industrial practice from several different regions of the world thereby providing an invaluable international perspective with practitioners experience of managing the wheel rail interface in a variety of environments and circumstances This comprehensive volume will enable practising railway engineers in whatever discipline of railway engineering infrastructure vehicle design and safety and so on to enhance their understanding of wheel rail issues which

have a major influence on the running of a reliable efficient and safe railway One stop reference on the important topic of wheel rail interfaces Presents the fundamentals of contact mechanics wear fatigue and lubrication Examines state of the art research and emerging technologies related to wheel rail interface and its management *Amtrak Safety* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Surface Transportation, 1984
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