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Automatic Transmission Fluid--a Dynamic Material Keeping Pace with Ever-Changing Requirements Development of Next-Generation Automatic Transmission Fluid Technology Fluid for Passenger Car Type Automatic Transmissions Experimental Investigation of Automatic Transmission Fluid (ATF) in an Air Cooled Minichannel Heat Exchanger Automatic Transmission Fluid - Component Effects on Friction Automatic Transmission Fluid The Design of Automatic Transmission Fluid to Meet the Requirements of Electronically Controlled Transmissions Chek-Chart Automatic Transmission Fluid Service Guide Factory-Service Automatic Transmission Fluid Requirements Development of a New Heavy-duty Automatic Transmission Fluid C-4 Specification Technical Considerations of Automatic Transmission Fluid Formulation Base Oil Requirements of Evolving Automatic Transmission Fluid Specifications Dexron-II Automatic Transmission Fluid Performance Service Fill

Automatic Transmission Fluid for the North American Market Influence of Automatic Transmission Fluid on Failure of Elastomeric Materials Rolling-element Fatigue Life with Traction Fluids and Automatic Transmission Fluid in a High-speed Rolling-contact Rig Rolling-element Fatigue Life with Traction Fluids and Automatic Transmission Fluid in a High-speed Rolling-contact Rig The Chrysler Torque-flite and Automatic Transmission Fluid Automatic Transmission Fluid Oxidation Rheological Properties of Automatic Transmission Fluid DEXRON II, the Next Step in Automatic Transmission Fluid Evolution Coordinating Research Council Research Techniques for Automatic Transmission Fluids Automatic Transmission Fluid Viscosity Requirements A New Polyacrylic Elastomer Cure System for Automatic Transmission Fluid (ATF) Hose Application The Interaction of Automatic Transmission Fluid Additives with Copper Automatic Transmission Fluids Effect of Automatic Transmission Fluid Viscosity on Vehicle Fuel Consumption at Low Ambient Temperatures MERCON Automatic Transmission Fluid Orientation to the Customers Service Needs Automatic transmission fluids Physical and Chemical Properties of a Typical Automatic

Transmission Fluid Basestock Requirements of Evolving Automatic Transmission Fluid Specifications Automatic Transmission Fluids Design Practices--passenger Car Automatic Transmissions Transmission Oil Cooler Hose AUTOMATIC TRANSMISSION & GEARBOX FLUID SERVICES GUIDE. Automatic Transmissions and Transaxles Automotive Automatic Transmission and Transaxles Automatic Transmissions: Automotive Transmission Air Breathing Suppressor (TABS) Valve TX-200 TRANSMISSION OIL COMPATIBILITY PROGRAM.

First published in 1962, with a second edition in 1973, and a revised second edition in 1988 (as AE-5). A compendium of the latest current practices of transmission engineering, for both experienced and novice transmission design engineers. Design calculations are included wherever possible. This ed This report covers the significant CRC work on passenger car automatic transmission fluid test techniques, including photographs of test equipment and a brief summary of cooperative test results. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Automatic Transmissions and

Transaxles, 7/e provides a complete, state-of-the-art source on the operating principles as well as the service and repair procedures for modern automatic transmission transaxles, complete with the practical skills that students must master to be successful in the industry. The text focuses on the generic theory underlying the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of vehicles students are likely to encounter in their work. Formatted to appeal to today's technical trade students, Halderman uses helpful tips and visuals to bring concepts to life and guide students through the procedures. This book is part of the Pearson Automotive Professional Technician Series, which provides full-color, media-integrated solutions for today's students and instructors covering all eight areas of ASE certification, plus additional titles covering common courses. Peer reviewed for technical accuracy, the series and the books in it represent the future of automotive textbooks. This SAE Standard covers four types of hose for use with automatic transmission fluid: A, B, AT, and BT. Type A and Type B are for use within a temperature range of -40 to 125 degrees C (-40 to 257 degrees F) while types AT and BT

are for use within a temperature range of -40 to 150 degrees C (-40 to 302 degrees F). Recommended maximum operating pressure for Type A and Type AT hose is 1.7 MPa (250 psi) while recommended maximum operating pressure for Type B and Type BT hose is 1.0 MPa (150 psi). The lower pressure (Types B and BT) hose is for auxiliary cooler applications only. The reference fluid for tests requiring the use of automatic transmission fluid shall be Dexron-II E/Mercon or equivalent. With Oldsmobile's introduction of the semi-automatic transmission in 1937 came the need for a transmission fluid with greater resistance to sludge and varnish formation than had been hitherto available. This SAE Information Report details some of the equipment and procedures used to measure critical characteristics of automatic transmission fluid (ATF) used in current automatic transmissions. It is intended to assist those concerned with the design of transmission components, and with the selection and marketing of automatic transmission fluids for the use in passenger car and light-duty truck automatic transmissions. The information contained herein will be helpful in understanding the terms related to properties, designations, and

service applications of automatic transmission fluids. Automotive Automatic Transmission and Transaxles, published as part of the CDX Master Automotive Technician Series, provides students with an in-depth introduction to diagnosing, repairing, and rebuilding transmissions of all types. Utilizing a "strategy-based diagnostics" approach, this book helps students master technical troubleshooting in order to address the problem correctly on the first attempt. -Outcome focused with clear objectives, assessments, and seamless coordination with task sheets -Introduces transmission design and operation, electronic controls, torque converters, gears and shafts, reaction and friction units, and manufacturer types -Equips students with tried-and-true techniques for use with complex shop problems -Combines the latest technology for computer-controlled transmissions with traditional skills for hydraulic transmissions -Filled with pictures and illustrations that aid comprehension, as well as real-world examples that put theory into practice -Offers instructors an intuitive, methodical course structure and helpful support tools With complete coverage of this specialized topic, this book prepares students for MAST certification and the full range of

transmission problems they will encounter afterward as a technician. About CDX Master Automotive Technician Series Organized around the principles of outcome-based education, CDX offers a uniquely flexible and in-depth program which aligns learning and assessments into one cohesive and adaptable learning system. Used in conjunction with CDX MAST Online, CDX prepares students for professional success with media-rich integrated solutions. The CDX Automotive MAST Series will cover all eight areas of ASE certification. A procedure was developed for laboratory compatibility tests with the TX-200 transmission. Using this procedure a referee base-line condition was established for the TX-200-2X transmission with MIL-L-2104A, OE-10, M14500, REO-14861 oil. The objectives of the tests were to evaluate MIL-O-10295, OE-S arctic engine oil and MIL-L-2104A, OE-30 engine oil as automatic transmission fluids and to compare the results of the laboratory tests with actual cross-country test-course operation. These tests showed that with reference to the established base line, MIL-O10295, OE-S, REO-127 oil is incompatible. However, the laboratory test cycle is less severe on clutch wear and more severe on low-range gearing than the 5000-mile cross-

country test. Thus it is recommended that a 5000-mile cross-country test be run in a cold climate with arctic engine oil as the transmission fluid to determine whether or not low-sun-gear failures could occur during actual field operation. The MIL-L-2104A, OE-30, M14804 oil was compatible with the transmission except for breakdown of the polyacrylate piston seals. Bench-type investigations should be conducted to determine the cause of seal failure. Factory-service automatic transmission fluids possess physical properties and performance features which differ substantially from the minimum Type A, Suffix A specification requirements. In some cases either the transmission life would be impaired by the use of a minimum Type A, Suffix A fluid, or desirable performance features would be deteriorated. These special factory requirements are discussed including low-temperature fluidity, frictional properties, clutch durability, antiwear characteristics, elastomer compatibility, and oxidative stability. The specialty factory fluids present questions concerning make-up oil additions and drain and refill practices. In spite of these, however, transmission manufacturers will continue to include the lubricant as an integral part of the total design. Thus service-

station fluids should be carefully chosen to compromise manufacturers' conflicting recommendations.

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