

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS B-6816
		Former Designation: TMS-6816
TITLE: Extended Drain Transmission Lubricants		CURRENT REV No.: 1608
		DATE: Aug. 2016
WRITTEN/EDITED BY: J. Morris	APPROVED BY: R. Goluch	SUPERSEDES: Rev. 1606 – June 2016
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<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		

1.0 APPLICATION

This specification covers lubricants suitable for use both as a factory fill and in service applications for heavy duty manual transmissions and transfer cases, providing customers with extended drain intervals.

2.0 SCOPE

This specification covers requirements for physical properties, OEM approvals, quality control, and shipping and identification requirements.

2.1 Restricted Chemical Substances

Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.

3.0 REFERENCE DOCUMENTS

Unless otherwise specified, the latest issue of all referenced standards shall apply. The following Specifications, Standards, and Regulations are referenced in this specification.

Quality System Standard:	CEC L-45-T-93(C)	ASTM D 97	ASTM D 5182
ISO 9001 or TS-16949	API 1509	ASTM D 130	ASTM D 5185
NAVISTAR Supplier Packing	API MT-1	ASTM D 445	ASTM D 5704
and Shipping Std. D-13	ASTM D 95	ASTM D 2983	SAE J306
NAVISTAR MPAPS B-50	Arvin Meritor 0-81	ASTM D 471	FSTM 3430.2
NAVISTAR MPAPS BT-10	Eaton PS-164 Rev 7	ASTM D 892	FSTM 3440.2
NAVISTAR MPAPS BT-9	Eaton PS-386	ASTM D 2270	SAE J300
CFR Title 29, Part 1910	Eaton PS-278	ASTM D 2273	

4.0 REQUIREMENTS

4.1 General

Lubricants purchased to MPAPS B-6816 shall consist of suitably refined synthetic base stocks fortified with additional functional additives as may be necessary to meet the requirements of MPAPS B-6816.

4.1.1 The supplier shall provide suitable evidence of the transmission lubricants having met the requirements of API service category GL-5, the appropriate Eaton specification PS-164 Rev. 7 (Type I, Pre-2014), PS-386 (Type II, Post-2014) or PS-278 for DC fluids, and Arvin Meritor 0-81. In addition, for each transmission lubricant submitted, the supplier shall provide acceptable evidence of field test data indicating 500,000 miles (minimum

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per vehicle) of satisfactory vehicle performance, without a lubricant change, in representative vehicles over a full range of service conditions. Lubricant viscosity at 100° C (212° F) shall remain in grade during the course of these field tests.

4.1.2 Material supplied to this specification shall meet all physical, chemical, and performance requirements shown in Table 1 and a written report indicating conformance to Table 1 requirements shall be provided before submitting samples for evaluation.

4.1.3 Material supplied shall be suitable for the use intended, be manufactured with good commercial practice, and shall exhibit no objectionable odor. Re-refined base stocks may be used provided that all other property and performance requirements are met.

4.2 Methods Of Test

All test designations refer to the latest issue unless otherwise indicated. Test methods may be obtained from:

ASTM	American Society for Testing and Materials 1916 Race Street Philadelphia, PA 19103	SAE	Society of Automotive Engineers 400 Commonwealth Drive Warrendale, PA 15096
FSTM	General Services Administration Specifications/ Suite 8100 470 L'Enfant Plaza, SW Washington, DC 20407	Navistar Specifications and Test Methods	IHS Global Inc. 15 Inverness Way East Englewood, CO 80112-5776 Tel. 1-800-854-7179

5.0 QUALIFICATION

Engineering qualification of sources is required in advance of production shipments. Suppliers shall submit samples for approval to the Navistar Materials Engineering Group. Samples shall be accompanied by test data certifying that all requirements of the specification have been met.

5.1 Quality Control Plan

A Quality Control Plan for products supplied to the requirements of this specification will be established by mutual agreement between NAVISTAR and the supplier. Unless specific exception is noted, the following characteristics, where applicable*, shall be included in the plan as features for management by statistical process control.**



Viscosity

* Other characteristics for inclusion in the control plan may be specified on the engineering drawing and/or purchase order.

** See NAVISTAR Engineering Design Standard A-16

6.0 SOURCE APPROVAL AND QUALITY CONTROL

6.1 Supplier Requirements

All suppliers to NAVISTAR are required to be registered to ISO 9001 Quality System Requirements. NAVISTAR will also accept TS-16949 registration as long as the supplier can also fulfill all AIAG PPAP (Production Part Approval Process) documentation and approval requirements. Suppliers must maintain their certification with an accredited registrar and must furnish copies of registration certificates to their Corporate Buyer upon request.

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