

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS B-32
		Former Designation: CEMS B-32
Diesel Fuels		CURRENT REV No.: 1402
		DATE: February 2014
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: CEMS B-32 – Aug. 2009
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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>		
Change Notice: Adjustment of fuel properties in Table 1 to align with ASTM D 975; editorial changes.		

1.0 APPLICATION

These fuels are intended for use as follows:

1.1 Grade 1C Winter Fuel: Factory Fill or Service Accumulation test fuel, for use at low ambient temperatures of -12 to -32°C (+10 to -25°F). For temperatures below -32°C (-25°F), a fuel meeting the requirements of Commercial Item Description (CID) AA-52557, Low Temperature Diesel Fuel Blend F-65 should be used. The Grade 1 diesel fuel is normally provided with a sulfur content of 7-15 parts per million (ppm).

1.2 Grade 1C^(MP): Winter fuel used by Engine Group at Melrose Park Engineering.

1.3 Grade 2C Summer Fuel: Factory Fill or Service Accumulation test fuel for normal ambient temperature operations. This fuel, with or without minimum aromatics content, will meet EPA requirements for Service Accumulation tests. The Grade 2 diesel fuel is normally provided with a sulfur content of 7-15 parts per million (ppm).

1.4 Grade 2C^(MP): The default fuel used by Engine Group at Melrose Park Engineering.

1.5 Grade 2 CERT: This fuel will meet EPA requirements for exhaust emission testing. The fuel is available in an ultra low sulfur version with sulfur content at 8-14 ppm.

2.0 SCOPE

This specification covers several grades of diesel fuel for use in engine development tests and for factory fill in production diesel engines.

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 ISO 9001 or TS-16949

ASTM D130

ASTM D1796

NAVISTAR Manufacturing Std. MS-D-13

ASTM D445

ASTM D2274

CFR Title 29, Part 1910

ASTM D482

ASTM D2500

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FEBRUARY 2014



Documents

Page 1 of 5
Document Sharing Hub

NUMBER: MPAPS B-32	TITLE: DIESEL FUELS	REVISION: 1402
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NAVISTAR Engineering Design Std A-16
NAVISTAR MPAPS B-50
ASTM D86
ASTM D93

ASTM D524
ASTM D613
ASTM D975
ASTM D976
ASTM D1500

ASTM D2622
ASTM D4052
ASTM D5186
ASTM D5453
ASTM D6079

4.0 REQUIREMENTS

Materials purchased to this specification will conform to the requirements shown in Table 1, and meet applicable requirements of ASTM D975.

5.0 QUALITY

Material will be satisfactory for use as a diesel engine test fuel or production ship-away fuel, respectively. Material will be clear, free of visible water, and have no objectionable odor.

6.0 QUALIFICATION

Engineering qualification of sources is required in advance of production shipments. Suppliers shall submit samples for approval of color, appearance, and API Gravity to the Navistar Industrial Design Group. Samples shall be accompanied by test data (when requested) certifying that all requirements of the specification have been met.

6.1 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.**



API Gravity

- * 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

7.0 SOURCE APPROVAL AND QUALITY CONTROL

7.1 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.

7.2 Approval

Material supplied against contracts or purchase orders citing this specification shall be equivalent in all respects to those samples which were approved by the purchaser. No changes in formulation or processing practices are permitted without approval. In the event that changes in material, properties, processing practices, color, or labeling of the product are required, the supplier shall notify NAVISTAR Materials Engineering, Purchasing, and Supplier Development of the proposed change(s). Test data indicating conformance to all requirements of this specification, test samples, and

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FEBRUARY 2014



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Page 2 of 5
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