

NAVISTAR, INC.		
CEMS (CORPORATE ENGINEERING MATERIAL SPECIFICATION)		NUMBER: CEMS B-26
TITLE: Miscellaneous Lubricants		CURRENT ISSUE DATE: August 2011
WRITTEN/REVIEWED BY: Material Engineering	APPROVED BY: Material Engineering	SUPERSEDES ISSUE OF: August 2006
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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: Replaced "International Truck and Engine Corporation" with Navistar, Inc. per corporate directive; editorial changes.		

1.0 SCOPE

This specification covers the Company's requirements for miscellaneous product lubricants.

2.0 INTRODUCTION

Miscellaneous and special lubricants are used in applications where more common lubricants have not provided satisfactory service.

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 CEMS B-50 specification.

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4.0 REFERENCE DOCUMENTS

Quality System Standard ISO 9001 or TS-16949	ASTM D 88
NAVISTAR CEMS B-50	ASTM D 1500
CFR Title 29, Part 1910	ASTM D 92
NAVISTAR Manufacturing Standard MS-D-13	ASTM D 97
ASTM D 445	ASTM D 287

5.0 CLASSIFICATION

Lubricants are classified by their viscosity.

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6.0 PROPERTY REQUIREMENTS

The material purchased to this specification will conform to the requirements shown in Table 1.

TABLE 1
LUBRICANT REQUIREMENTS

Property		Navistar Grade			Test Method (ASTM)
		610H	620H	621H*	
Application		Vacuum Pump	Twine Base	Twine Oil Blend	-
Viscosity at 100° F	SUS	80-84	110-115	72-76	D 88
	Kinematic, cSt	15.7-16.7	22.8-24.0	13.6-14.6	D 445
Pour Point, ° F, Max		-20	0	0	D 97
Flash Point, ° F, Min		285	320	270	D 92
Fire Point, ° F, Min		315	-	-	D 92
Gravity, AP1		20-27	23 Max	26 Max	D 287
Weight per Gallon at 60° F, lbs, Min		-	7.65	7.48	-
Color, ASTM, Max		2	3	2½	D 1500

*Will be produced by blending 80% of Navistar Grade 620H oil by volume with 20% of distillate.

7.0 QUALITY

All product supplied shall be clean and free of visible water, abrasives, coarse fillers, or other defects harmful to product performance. The supplier should be capable of providing statistical evidence that the material has been manufactured within process control limits established by the supplier for this product and that the process is capable of meeting the requirements of this specification.

8.0 METHODS OF TEST

All tests will be performed in accordance with the ASTM test requirements given in Table 1.

9.0 SOURCE APPROVAL AND QUALITY CONTROL

9.1 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 Navistar Corporate Buyer upon request.

9.2 Approval

Parts 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, construction, color, or labeling of the product are required, the supplier shall notify Materials Engineering, TDTC, and Purchasing and Supplier Development of the proposed change(s). Test data indicating conformance to all requirements of this specification, test samples, and new or amended or updated Material Safety Data Sheet(s) (MSDS), in accordance with CFR Title 29, Part 1910 shall be submitted with the request for change.

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