

NOT MEASUREMENT  
SENSITIVE

MIL-H-46170B  
INTERIM AMENDMENT 3 (ME)  
17 November 1993  
USED-IN-LIEU-OF  
AMENDMENT 2  
31 March 1988

MILITARY SPECIFICATION

HYDRAULIC FLUID, RUST INHIBITED, FIRE RESISTANT

SYNTHETIC HYDROCARBON BASE

This interim amendment is approved for use within the US Army Belvoir Research, Development, and Engineering Center, Department of the Army, with MIL-H-46170B, dated 24 March 1982.

PAGE 1

\* 2.1.1, under SPECIFICATION, FEDERAL, add:

"TT-N-95 - Naphtha, Aliphatic".

PAGE 2

After PUBLICATIONS, BULLETIN, AF539, add:

"2.1.2 Other Government documents, drawings, and publications.  
The following other Government documents, drawings, and publications form a part of this specification to the extent specified herein. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

DEPARTMENT OF LABOR (DOL)

OSHA 29 CFR 1910.1200 Hazard Communication Interpretation  
Regarding Lubricating Oils.

(Guideline CPL 2-2.38 may be obtained from OSHA Publication Office, Room S-4203, 200 Constitution Avenue, NW, Washington, DC 20210.)"

2.2, under AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), delete "D 270" in its entirety.

AMSC N/A

FSC 9150

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Add:

- \* "D 329               - Acetone.
- D 4057           - Manual Sampling of Petroleum and Petroleum Products.
- D 4177           - Automatic Sampling of Petroleum and Petroleum Products."

3.2, add "The contractor shall certify that no carcinogenic or potentially carcinogenic constituents are present as defined under the Hazard Communication Standard (HCS) 29 CFR 1910.1200. Certification to this effect shall be made available to the contracting officer or the contracting officer's representative."

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3.2.1.4, line 4, delete "3.3.9" and substitute "3.4.9".

Line 5, add the following at the end of the sentence: "of the compound tricresol phosphate which is equivalent to 100 ppm in the finished product".

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After 4.1, add the following:

"4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material."

4.3.2, line 2, delete "D 270" and substitute "D 4057 or D 4177".

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4.3.4, line 16, delete "US Army Mobility Equipment Research and Development Command, Energy and Water Resources Laboratory, ATTN: DRDME-GL, Fort Belvoir, VA 22060" and substitute "US Army Belvoir Research, Development and Engineering Center, ATTN: SATBE-FL, Fort Belvoir, VA 22060-5818".

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4.4.1, add the following: "Certification of non-carcinogenicity as specified (i.e., materials are not considered carcinogenic or potentially carcinogenic)."

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Table VII, add footnote 2/:

"2/ Metal squares are to be washed at room temperature with aliphatic naphtha conforming to TT-N-95, followed by acetone conforming to ASTM D329, instead of with 1,1,1 trichloroethane, conforming to MIL-T-81533."

PAGE 15

5.2, lines 8 thru 11, delete warning label in its entirety.

6.3, delete in its entirety and substitute:

"6.3 Qualification. Awards will be made only for products which are qualified for inclusion in the applicable qualified products list at the time set for opening bids. Each product of hydraulic fluid (FRH) which satisfies all of the requirements of this specification will be qualified for a period not to exceed five years from the date of original qualification. When the qualification period has expired, each product must be requalified if the supplier wishes to maintain the formulation as a current product and be eligible to bid on prospective procurements. If the product is submitted for requalification and there has been no change in specification requirements, the qualifying activity may, at its discretion, waive complete retesting or require only partial retesting of the product to determine its continued acceptability.

"6.3.1 Formulation change. Whenever there is a change in base stock or additives used in formulation, requalification will be required. When the proposed changes are minor and may not be expected to significantly affect the performance, the qualifying activity may, at its discretion, waive complete requalification or require only partial requalification in order to determine the significance and acceptability of the proposed change."

PAGE 16

6.9.1, delete in its entirety and substitute:

"6.9.1 Background. The product contains 1.0 percent tricresol phosphate, of which not more than 0.01 percent may be present as the ortho isomer (see 3.2.1.4). If this ortho isomer of tricresol phosphate is absorbed through the skin or taken internally, it may cause paralysis. The corrosion inhibitor contains barium. Accumulated waste liquids shall have the exterior of the outer pack marked as containing barium and tricresol phosphate to assist disposal facilities to manage the product according to regulations promulgated by the US Environmental Protection Agency under Public Law 94-580, Resource Conservation and Recovery Act of 1976."

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The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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