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METRIC

MIL-PRF-17672D
AMENDMENT 3
31 May 1995
SUPERSEDING
AMENDMENT 2
16 March 1987

PERFORMANCE SPECIFICATION

HYDRAULIC FLUID, PETROLEUM, INHIBITED

This amendment forms a part of MIL-H-17672D, dated 23 January 1984 and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

2.1.1: Delete and substitute:

"2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation."

PAGE 2

2.1.2: Add as new paragraph:

"2.1.2 Other Government document. The following other Government document forms 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

Code of Federal Regulations, Title 29, Part 1910,
Section 1200 - Hazard Communications Standard.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, DC 20402.)"

2.2: Delete and substitute:

* "2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted shall be those listed in the issue of the DoDISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS shall be the issue of the nongovernment documents which is current on the date of the solicitation."

2.2 Delete "ASTM" and substitute:

"AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)"

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2.2: Delete:

"D 270 - Sampling Petroleum and Petroleum Products. (DOD adopted)
"D 341 - Viscosity - Temperature Charts for Liquid Petroleum Products.
(DOD adopted)"

2.2: Add:

"D 4057 - Standard Practice for Manual Sampling of Petroleum and
Petroleum Products."

2.2: Delete:

"(Application for copies should be addressed to the ASTM, 1916 Race Street,
Philadelphia, PA 19103.)

"(Industry association specifications and standards are generally available for
reference from libraries. They are also distributed among technical groups and using
Federal agencies.)"

and Substitute:

"(Application for copies should be addressed to the American Society for Testing
and Materials, 1916 Race Street, Philadelphia, PA 19103.)

"(NonGovernment standards and other publications are normally available from the
organizations which prepare or which distribute the documents. These documents also
may be available in or through libraries or other informational services.)"

2.3: Delete and substitute:

"2.3 Order of precedence. In the event of a conflict between the text of this
specification and the references cited herein (except for associated detail
specifications, specification sheets or MS standards), the text of this specification
shall take precedence. Nothing in this specification, however, shall supersede
applicable laws and regulations unless a specific exemption has been obtained."

3.2: Add: "This hydraulic fluid does not require the use of antiwear additives.
Further, the fluid shall be of such material as to not require additional container
labeling in accordance with 29 CFR 1910.1200."

PAGE 5

Table I, under "ASTM no." column, opposite from "Flash point, °C (°F) minimum":
Delete "D 341".

PAGE 6

Table I, under columns "2075 T-H", "2110 T-H", and "2135 T-H" Delete: "65".

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Footnote 9: Delete and substitute: "9/ A ring of bubbles around the edge of the graduate shall be considered complete collapse or 0 mL."

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3.6, second sentence: Delete and substitute: "The result of the oxidation by rotating bomb test shall be not more than 15 percent less than the value contained in the qualification test report."

3.8: Delete and substitute:

"3.8 Toxicity. The hydraulic fluid shall have no adverse effect on the health of personnel when used for its intended purpose. The fluid shall contain no components which produce noxious vapors in such concentrations as to be an annoyance to personnel during formulation or normal use under conditions of adequate ventilation while exercising caution to avoid prolonged contact with the skin and while observing Occupational Safety and Health Administration (OSHA) guidelines. Questions pertaining to the toxic effects shall be referred by the contracting activity to the Naval Medical Command (NAVMEDCOM), Washington, DC who will act as a medical advisor to the contracting activity."

3.8.1: Add as new paragraph:

"3.8.1 Material safety data sheets. The contracting activity and the Naval Sea Systems Command, shall be provided a material safety data sheet (MSDS) at the time of bid submission or contract award. The MSDS shall be provided in accordance with the requirements of FED-STD-313 and 29 CFR 1910.1200. When FED-STD-313 is at variance with the CFR, 29 CFR 1910.1200 shall take precedence, modify, and supplement FED-STD-313. The MSDS shall be included with each shipment of the material covered by this specification."

4.1.1: Add as new paragraph:

"4.1.1 Responsibility for compliance. All items shall meet all the 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 ensuring 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 accept defective material."

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4.4.2.1: Delete "ASTM D 270" and substitute "ASTM D 4057".

4.4.2.3.1: Delete "ASTM D 270" and substitute "ASTM D 4057".

4.4.2.3.2: Delete "ASTM D 270" and substitute "ASTM D 4057".

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4.9: Add as new paragraph:

"4.9 Toxicity. To determine conformance to the requirements of 3.8; the manufacturer of the material shall disclose the formulation of his product to the Naval Medical Command, MEDCOM-242, Washington, DC 20372. The disclosure of proprietary information, which shall be held in confidence by the Naval Medical Command, shall include: the name, formula, and approximate percentage by weight and volume of each ingredient in the product; the results of any toxicological testing of the product; identification of its pyrolysis products; and any such other information as may be needed to permit an accurate appraisal of any toxicity problem associated with the handling, storage, application, use, disposal, or combustion of the material. Information submitted shall be clearly marked or identified to show it is being provided in connection with qualification under MIL-H-17672."

PAGES 11 and 12

6.6: Delete and substitute:

"6.6 Material safety data sheets. Contracting officers will identify those activities requiring copies of completed Material Safety Data Sheets (MSDS) prepared in accordance with FED-STD-313. The pertinent Government mailing addresses for submission of data are listed in appendix B of FED-STD-313. In order to obtain the MSDS, FAR clause 52.223-3 must be in the contract.

NOTE: 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.

Custodians:

Army - GL
Navy - SH
Air Force - 68

Preparing activity:

Navy - SH
(Project 9150-1155)

Review activities:

Army - ME, AT
Navy - AS
DLA - GS

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- * In APPENDIX B, VALVE STICKING CHARACTERISITICS, replace
"MILITARY
MIL-C-81302 - Cleaning Compound, Solvent, Trichlorotrifluoroethane" with
"FEDERAL
P-D-680 - Dry Cleaning and Degreasing Solvent."

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- * Replace "(b) Solvent in accordance with MIL-C-81302" with "(b) Cleaning solvents:
P-D-680, type III, isopropyl alcohol and hexane(s) or heptane or non-
aromatic naphtha."

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- * In APPENDIX B, VALVE STICKING CHARACTERISTICS, change paragraphs 40.1, 40.1.1, and 40.1.2 to the following:

- * "40.1 Test valve cleaning.

- * "40.1.1 The pipe loop shall be dismantled at all take-down joints and allow the fluid to drain. The tst valves shall be disassembled and the spool, packings, o-rings, and sleeve assemblies examined. After removal of the o-rings, and packings, the valve bodies, spools, sleeve assemblies and other dismantled parts shall be cleaned under a laboratory fume hood by rinsing first with hexane(s), heptane, or naphtha and then with isopropyl alcohol. Discard any o-rings or packings which appear damaged. Place o-rings or packings back on parts after they have dried.

- * "40.1.2 Sump cleaning. The sump is drained of oil and rinsed frour times with the replacement solvent P-D-680, type III, and air dried.

- * "40.2 System cleaning. With valves V1 and V2 removed from their base plates and other valves open, P-D-680, type III solvent shall be pumped through the system lines until there is no evidence of previous test oil being present. Add test oil to the sump and pump the test oil through the system lines to valves V1 and V2.

- * "40.3 System flushing.

This paragraph represents previous paragraph 40.2. Change the subparagraphs from 40.2.1 to 40.3.1 and continue the numbering system as appropriate.

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- * "40.4 Test operation."

- * This paragraph represents previous paragraph 40.3. Change the subparagraphs from 40.3.1 to 40.4.1 and continue corresponding change in numbering.

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* "50. RATING

* "50.1 Change force units to read "... averages 20 lbf (89N) or below with no individual initial actuation force exceeding 25 (111N)."