

MIL-C-5637B(USAF)  
 AMENDMENT 2  
12 February 1988  
 SUPERSEDING  
 AMENDMENT 1  
 15 November 1982

## MILITARY SPECIFICATION

COOLER, LUBRICATING OIL, PETROLEUM  
 BASE, AIRCRAFT ENGINE, TUBULAR

This amendment forms a part of MIL-C-5637B(USAF), dated 15 September 1964, and is approved for use within the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

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- \* 2.1 Delete "first sentence" and add: "Government documents".
- \* Add: "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\*.

Under "SPECIFICATIONS, Military\*" delete "MIL-B-121", "MIL-T-5021, MIL-P-7936" and "MIL-D-70327" then add: "DOD-D-1000 Drawing, Engineering And Associated List"

- \* Under \*"STANDARDS, Military", delete "MS33586" then add the following:

"MIL-STD-129	Marking For Shipment And Storage
MIL-STD-889	Dissimilar Metals
MIL-STD-1595	Aerospace Welder Performance Qualification"
MIL-STD-2073- 1A	DOD Material Procedures For Development And Application Of Packaging Requirements'*

- \* Add: "2.2 Other publications". The following document(s) 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.

American Society For Testing And Materials (ASTM)

ASTM D3951 Packaging, Commercial

(Application for copies should be addressed to: ASTM, 1916 Race St, 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."

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\* Add: "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.'\*

3.1 Delete paragraph entirely and add: "3.1 First article. When specified in the contract or purchase order, a sample shall be subjected to first article inspection (see 4.3 and 6.3)".

Add the following boxed paragraph to the bottom of the page:

**Beneficial comments (recommendation, additions, deletions, and any pertinent data which may be of use in improving this document should be addressed to: Oklahoma City Air Logistics Center/MMEDO, Tinker AFB OK 73145-5990 by using the self addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.**

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3.2.1 Line 9 delete "MS33586" and add: "MIL-STD-889",

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3.4. Line 7 delete "MIL-D-70327" and add: "DOD-D-1000".

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3.11.2 Line 3 Delete "MIL-T-5021, Class A, Group IV\*" and add: "MIL-STD-1595".

Add new paragraph: "3.12 Recycled and reclaimed materials. The use of recycled and reclaimed materials shall be encouraged to the maximum extent possible, without jeopardizing the intended end use of the item."

4.2,a Delete "Qualification tests and add: "First article tests"\*.

4.3 Title and line 1: Delete "Qualification tests" and add: "'First article test" in both places.

4.3.1 Title, lines 1, 12, and 17: Delete "Qualification test(s) " in all four places and add "First article test(s)\*'.

\* 4.3.1 Line 5 add "When specified in the contract or order\*" at the beginning of the sentence and "(see 6.5)" at the end of the sentence.

4.3.1.1 Line 11 delete "Qualification test samples" and add: "First article test samples". Line 3, delete "qualification" and add "inspection\*'.

4.3.1.2 Line 3 delete "'qualification test samples" and add "first article test samples". Line 4, delete "MIL-D-70327" and add: "DOD-D-1000".

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- \* Add: "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 suppliers 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."

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- \* Delete 1 '4.3.1.3' in its entirety and add: "'4.3.1.3 Test reports. The test reports submitted with the first article test samples shall include curves similar to figures 2, 3, and 4, and a summary of results in accordance with figure 5.\*'

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- \* Delete Section 5 in its entirety and add:

"5. PACKAGING

5.1 Preservation. Preservation shall be level A, C, or Industrial as specified (see 6.2).

5.1.1 Level A. Unless otherwise specified by the contracting activity, each oil cooler shall be individually preserved and packaged according to MIL-STD-2073-1A. The method of preservation shall conform to submethod 1C-1 of MIL-P-116.

5.1.2 Level C. Each oil cooler shall be preserved and packaged in a manner which will afford adequate protection against corrosion, deterioration, and physical damage during shipment from supply source to the first receiving activity for immediate use.

5.1.3 Industrial. The Industrial preservation of oil cooler shall be in accordance with ASTM D3951.

5.2 Packing. Packing shall be Level A, B, C, or Industrial as specified (see 6.2).

5.2.1 Level(s) A, B, or C. The level of packing shall be specified by the contracting activity. The level of packing shall be accomplished in accordance with the requirements outlined in MIL-STD-2073-1A.

5.2.2 Industrial. The packaged oil cooler shall be packed in accordance with ASTM 03951.

5.3 Marking. In addition to any special marking required by the contract or order, marking shall be in accordance with Military Standard MIL-STD-129.

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5.4 Inspection and test. Test of methods of preservation and packaging shall be accomplished in accordance with section 4 of MIL-P-116 to insure compliance with section 5 of this specifications."

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6.3 Delete paragraph entirely and add: "6.3 First article. When a first article is required, the item shall be inspected and tested in accordance with Section 4 of this document. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examination, test and approval of the first article".

- \* Delete "\*6.5" and add new "06.5 Data requirements. When this specification is used in acquisition and data are required to be delivered, the data requirements identified below shall be developed as specified by an approved Data item Description (DD Form 1664) and delivered in accordance with the approved Contract Data Requirements List (CDRL), incorporated into the contract. When the provisions of DOD FAR Supplement, Part 27, Sub-Part 27.475-1 (DD Form 1423) are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this specification are cited in the following paragraphs.

<u>Paragraphs No.</u>	<u>Data requirements title</u>	<u>Applicable DID No</u>	<u>Option</u>
4.3.1	Test Reports-General	DI-T-3718	
4.3.1	Engineering drawing	DI-E-7031	-

(Data item description related to this specification, and identified in section 6 will be approved and listed as such in DoD 5010.12-L, AMSDL. Copies of data item descriptions required by the contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center or as directed by the contracting officer.)\*'

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. Bidder 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  
AIR FORCE -99

Preparing activity:  
AIR FORCE -71

Project No:  
2935-F027