

MIL-A-25676D
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 SUPERSEDING
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MILITARY SPECIFICATION

ADAPTER, PRESSURE LUBRICATING OIL SERVICING, AIRCRAFT

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers an adapter installed in an aircraft turbine engine lubricating oil system as a connection for ground servicing with pressure lubricating oil servicing equipment, using synthetic lubricating and preservative oil, as specified herein.

1.2 Classification. Pressure lubricating oil servicing adapters shall be of the sizes specified on MS24476 (see 6.2).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

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.

SPECIFICATIONS

FEDERAL

QQ-P-416	Plating, Cadmium (Electrodeposited).
PPP-B-601	Boxes, Wood Cleated - Plywood.
PPP-B-636	Boxes, Shipping Fiberboard.

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MIL-P-116	Preservation, Methods of.
DOD-D-1000	Drawing, Engineering and Associated List.
MIL-S-7742	Screw Threads, Standard, Optimum Selected Series; General Specification for.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: the Engineering Division, San Antonio Air Logistics Center/MMEDO, Kelly AFB, TX 78241 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 4730

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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MIL-L-7808	Lubricating Oil, Aircraft Turbine Engine, Synthetic Base, NATO Code Number 0.148.
MIL-C-8188	Corrosion-Preventive Oil, Gas Turbine, Engine, Aircraft, Synthetic Base.
MIL-A-8625	Anodic Coatings, for Aluminum and Aluminum Alloys.
MIL-L-23699	Lubricating Oil, Aircraft Turbine Engines, Synthetic Base.
MIL-N-25677	Nozzle, Pressure Lubricating Oil Servicing, Locking.

STANDARDS

MILITARY

MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129	Marking for Shipment and Storage.
MIL-STD-130	Identification Marking of U.S. Military Property.
MIL-STD-143	Standards and Specifications, Order of Precedence for the Selection of.
MIL-STD-147	Palletized Unit Loads.
MIL-STD-810	Environmental Test Methods and Engineering Guidelines.
MIL-STD-831	Test Reports, Preparation of.
MIL-STD-889	Dissimilar Metals.
MS24476	Adapter, Pressure Lubricating Oil Servicing, Aircraft.
MS24480	Cap and Lubrication Fitting, Protective, Pressure Servicing Adapter.
MS29561	Packing, Preformed, "O" Ring, Synthetic Lubricant Resistant.
MS33657	Fitting End, Standard Dimensions for Bulkhead Flared Tube Connections.

(Copies of specifications, standards, and other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

2.2 Other publications. The following document forms 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 non-government documents which is current on the date of the solicitation.

AMERICAN SOCIETY FOR TESTING AND MATERIAL (ASTM)

ASTM D-3951-82 Packaging, Commercial

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

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 sheet 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.

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3. REQUIREMENTS

3.1 Qualification. The adapter furnished under this specification shall be a product which has been tested and which has passed the qualification tests specified herein, and which has been listed on or approved for listing on the applicable Qualified Products List. (See 6.5).

3.2 Components. The complete adapter assembly shall consist of an adapter incorporating a self-sealing shutoff device and a protective cap in accordance with MS24476 and MS24480, respectively.

3.3 Selection of specifications and standards. Specifications and standards for necessary commodities and services not specified herein shall be selected in accordance with MIL-STD-143, as provided in 3.3.1 and 3.3.2.

3.3.1 Commercial parts. Commercial parts having suitable properties may be used where, on the date of invitation for bids, there are no suitable standard parts. In any case, commercial utility parts such as screws, bolts, nuts, and cotter pins, having suitable properties may be used, provided:

- a. They can be replaced by the standard parts (MS or AN) without alteration.
- b. The corresponding standard part numbers are referenced in the parts list and, if practical, on the contractor's drawings.

3.3.2 Standard parts. With the exception in 3.3.1, MS and AN standard parts shall be used where they suit the purpose. They shall be identified on the drawings by their part numbers.

3.4 Materials. Materials shall conform to applicable specifications and shall be as specified herein. Materials which are not covered by applicable specifications, or which are not specifically described herein, shall be of the lightest practicable weight and suitable for the purpose intended.

3.4.1 Metals. All metals used in the construction of the adapter that are not of a corrosion-resistant type, shall be suitably protected to resist corrosion in oil conforming to MIL-L-7808, salt spray, or atmospheric conditions in storage or during normal service life. The use of dissimilar metals, especially brass, copper, or steel in contact with aluminum or aluminum alloy, shall be avoided where practicable. Dissimilar metals are defined by MIL-STD-889. Magnesium shall not be used.

3.5 Design. The adapter shall be designed to mount on a section of aircraft or engine structure and to mate with a pressure servicing lubricating oil nozzle conforming to MIL-N-25677 and to provide for quick separation from the nozzle. The adapter, when disconnected from the nozzle, shall automatically seal its severed end against spillage of fluid. In addition, the adapter shall be provided with a protective cap that shall mount on the adapter and provide a seal against the entrance into the adapter of dust, dirt, or salt spray. The cap shall remain securely mounted to the adapter during the vibration test specified in 4.6.10. The cap shall be attached to the adapter or surrounding aircraft structure by means of a chain.

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3.5.1 Method of connecting and disconnecting. Connecting and disconnecting the adapter to the nozzle shall be accomplished manually throughout the operating temperature range. After the adapter and nozzle have been connected, positive flow of fluid shall be assured, and no possibility of fluid shutoff shall occur. A positive locking means shall be provided when the adapter is connected to the nozzle. The force required to engage the adapter and nozzle shall not exceed 20 pounds.

3.5.2 Maintenance. The adapter shall have a minimum number of parts consistent with reliability. Its design shall, where practicable, permit easy assembly, disassembly, location of trouble sources, and maintenance with tools and equipment normally available commercially, by service maintenance personnel with a minimum of training.

3.6 Construction. The adapter shall be constructed to withstand the normal strains of jars, vibration, and such other conditions incident to shipping, storage, installation, and service. All loose parts such as gaskets and seals shall be securely attached to the adapter so that they will not become detached or damaged due to rough or inept handling during the process of connecting and disconnecting the adapter to the nozzle. Connecting and disconnecting the adapter shall have no adverse effect on its leakage characteristics.

3.7 Performance. The adapter shall operate without failure under the following conditions. There shall be no leakage except for entrapped fluid within the adapter which would be lost at disconnection.

3.7.1 Temperature range. The adapter shall function over a temperature range of -65° F to $+250^{\circ}$ F.

3.7.2 Operation and leakage. The adapter shall operate satisfactorily when subjected to the operating pressures encountered in turbine engine oil systems. There shall be no visible signs of leakage during the operation and leakage test specified in 4.6.4.

3.7.3 Low temperature and leakage. The adapter shall not crack nor show other imperfections when subjected to an ambient temperature of -65° F for 24 hours. Following this cold soak, connection and disconnection of the adapter and nozzle shall be accomplished with relative ease and rapidity. There shall be no visible signs of leakage during the leakage tests specified in 4.6.5.

3.7.4 High temperature and leakage. The adapter shall show no imperfections as a result of the high temperature test specified in 4.6.6. There shall be no leakage during this test.

3.7.5 Pressure drop. The pressure drop of the adapter and nozzle assembly, when tested as specified in 4.6.7, shall not exceed that specified on MS24476.

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3.7.6 Side load. The adapter and nozzle assembly shall not leak nor be distorted or damaged in any way when subjected to the side load test as specified in 4.6.9.

3.7.7 Vibration and leakage. The adapter shall remain firmly fixed to the mounting structure, the cap shall not become loosened or unattached during that portion of the test in which it is installed on the adapter, and there shall be no leakage during the vibration test specified in 4.6.10.

3.7.8 Poppet spring. The poppet spring force of the adapter shall be such as to permit relatively easy coupling or uncoupling of the nozzle and to provide adequate pressure on the poppet while uncoupled. The spring force shall be as specified in 4.6.8.

3.8 Connections. The adapter fitting end shall conform to MS33657.

3.9 Screw threads.

3.9.1 Straight screw threads. All threads shall be in accordance with MIL-S-7742.

3.9.2 Antiseize compound. An antiseize compound approved by the procuring activity shall be used on aluminum or aluminum alloy threaded parts.

3.10 Packing. Oil seals shall conform to MS29561, where practicable. Where MS29561 seals are not applicable, the seals shall be suitable for use with oil conforming to MIL-L-7808, MIL-C-8188, and MIL-L-23699.

3.11 Interchangeability. All parts having the same manufacturer's part number shall be functionally and dimensionally interchangeable. The drawing number requirements of DOD-D-1000 shall govern changes in the manufacturer's part number.

3.12 Dimensions. The overall and mounting dimensions shall be as specified in MS24476 and MS24480.

3.13 Weight. The weights of the adapter and cap shall be specified on the manufacturer's drawings and shall not exceed those specified on MS24476 and MS24480, respectively.

3.14 Finish.

3.14.1 Aluminum alloy parts. Aluminum alloy parts shall be anodized in accordance with MIL-A-8625 of the type and class specified on the manufacturer's drawing.

3.14.2 Steel parts. Steel parts shall be cadmium plated externally where required in accordance with type II, class 2 of QQ-P-416.

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5.15 Identification of product. Equipment, assemblies, and parts shall be marked for identification in accordance with MIL-STD-130.

3.16 Workmanship. The adapter shall be constructed and finished in a thoroughly workmanlike manner. Fittings shall be free from burrs and longitudinal and spiral tool marks. All sealing surfaces shall be smooth, except that annular tool marks up to 100 microinches roughness height rating maximum will be acceptable.

3.16.1 Tolerances. All pertinent dimensions and tolerances, where interchangeability, operations, or performance of the adapter may be affected shall be specified on manufacturer's drawings (see 4.3.1.1).

3.16.2 Cleaning. The adapter shall be thoroughly cleaned of dirt, sand, metal chips, or other foreign materials while being assembled and after final assembly.

4. QUALITY ASSURANCE PROVISIONS

* 4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

* 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.

4.2 Classification of inspection. The examination and testing of the adapters shall be classified as follows:

- a. Qualification inspection (see 4.3).
- b. Quality conformance inspection (see 4.4).

4.3 Qualification inspection.

4.3.1 Qualification inspection samples. The qualification inspection samples shall consist of two complete adapters. One of the adapters shall have been examined and tested by the contractor in accordance with this specification. The remaining adapter shall be an untested unit. Samples for each size shall be accompanied by four complete sets of legible detail and assembly drawings, and complete test reports showing results of manufacturer's test. Samples shall be identified with the manufacturer's own part number and any additional information required by the letter of authorization (see 6.2).

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4.3.1.1 Manufacturer's drawings. Manufacturer's drawings submitted with the test samples shall include a sectional view showing all parts in their normal assembled position and shall specify part numbers of all parts and subassemblies. The following data shall be furnished on or together with the assembly drawing:

- a. Detailed internal construction.
- b. Internal, external, and overall dimensions.
- c. Materials of construction, treatment, and finish.
- d. Weight

4.3.1.2 Manufacturer's test report. The test report submitted with the test sample shall conform to MIL-STD-831 and shall include the following:

- a. Report of all tests, graphically presented when possible, together with a detailed statement indicating compliance or extent of non-compliance with all requirements of this specification, referring specifically to paragraph numbers.
- b. Outline and description of tests and test conditions.
- c. Copies of test log sheets.

4.3.2 Qualification required. Prior to actual procurement, the product covered by this specification shall pass the qualification inspection specified herein. If the product is later modified in any way, the modified product shall be subjected to and shall pass the same qualification inspection.

4.3.3 Qualification. Qualification shall consist of the examination and tests as described under 4.6 and shall be performed on adapters in the following order:

- a. Examination of product (see 4.6.1).
- b. Operation and leakage (see 4.6.4).
- c. High temperature and leakage (see 4.6.6).
- d. Low temperature and leakage (see 4.6.5).
- e. Pressure drop test (see 4.6.7).
- f. Accelerated corrosion test (see 4.6.11).
- g. Side load test (see 4.6.9).
- h. Poppet spring test (see 4.6.8).
- i. Vibration and leakage test (see 4.6.10).
- j. Disassembly and inspection (see 4.6.12).

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4.4 Quality conformance inspection. Quality conformance inspection shall consist of the following:

- a. Individual test (see 4.4.1).
- b. Sampling tests (see 4.4.2).

4.4.1 Individual test. Each adapter assembly shall be subjected to examination of product specified in 4.6.1.

4.4.2 Sampling tests.

4.4.2.1 Lot. A lot shall consist of all adapters of the same part number which have been manufactured under essentially the same conditions and at substantially the same time.

4.4.2.2 Sampling instructions. Sample adapters from each lot, of an order that has passed the individual test, shall be selected in accordance with MIL-STD-105 and subjected to the following tests:

- a. Connect and disconnect test (see 4.6.2).
- b. Pressure test (see 4.6.3).

General inspection level II and an AQL of 2.5 shall be used to determine sample size and lot acceptance/rejection criteria.

4.5 Test conditions.

4.5.1 Cleaning. Before testing, all oil and grease or other corrosion-resistant compound shall be removed from the interior and exterior parts of the adapter.

4.5.2 Temperatures. Unless otherwise specified, all testing shall be conducted at room temperature, $70^{\circ} \pm 10^{\circ}$ F.

4.5.3 Test nozzle. When reference is made in this specification to a nozzle used in conjunction with testing of the adapter, the nozzle shall conform to MIL-N-25677.

4.6 Inspection methods.

4.6.1 Examination of product. Each adapter and cap shall be visually inspected for defects of material, workmanship, finish, and for conformance to MS24476 and MS24480, respectively, and all requirements of this specification for which there are no specific tests.

4.6.2 Connect and disconnect test. Each sample adapter shall be connected to and disconnected from a test nozzle 10 times while dry. Each connection and disconnection shall be accomplished with relative ease and rapidity and without the use of tools. There shall be no binding, sticking, or scoring of parts.

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4.6.3 Pressure test. Each sample adapter shall be connected to a nozzle and shall be hydrostatically tested at the pressures specified in 4.6.4. The adapter shall withstand the applied pressure for 1 minute without any visible signs of leakage.

4.6.4 Operation and leakage test. This test shall be conducted on the adapter while connected to a test nozzle, as follows:

- a. An adapter and nozzle shall be connected and disconnected 2,000 times consecutively while dry. The assembly shall then be pressure checked at a hydrostatic pressure of 500 psi with MIL-L-7808 oil for 1 minute. There shall be no visible signs of leakage from the adapter portion. The adapter and nozzle shall be disconnected and the following pressure tests conducted on the adapter.
- b. Using MIL-L-7808 oil, a hydraulic pressure of 500 psi shall be applied to the outlet end of the adapter for 5 minutes. There shall be no signs of leakage.
- c. A hydraulic back pressure of a 2-foot head of MIL-L-7808 oil shall be applied to the adapter for 1/2 hour. There shall be no visible signs of leakage.
- d. A hydraulic back pressure of oil equivalent to 5 psi shall be applied to the adapter for 1/2 hour. There shall be no signs of leakage.
- e. The adapter shall be drained and an air back pressure of 4.5 psi shall be applied to the adapter for 1/2 hour. There shall be no visible signs of leakage.

4.6.5 Low temperature and leakage test. An adapter and nozzle, while disconnected, shall be filled with oil conforming to MIL-L-7808 and cold soaked at a temperature of -65° F for 24 hours. The following tests shall then be conducted at an ambient temperature of -65° F:

- a. The adapter and nozzle shall be connected and disconnected. This shall be accomplished with relative ease and rapidity. Any binding, locking, or scoring of parts shall be cause for rejection.
- b. The adapter and nozzle shall then be connected, and a hydrostatic pressure of 500 psi of MIL-L-7808 oil shall be applied at the adapter inlet for 1 minute. There shall be no visible signs of leakage from the adapter.
- c. The adapter shall be subjected to the pressure tests of 4.6.4 (b), (c), (d), and (e).

4.6.6 High temperature and leakage test. A high temperature test shall be made at an ambient temperature of 250° F. The adapter shall be heat soaked for 2 hours, and while maintained at 250° F, the pressure test of 4.6.4 (b), (c), (d), and (e) shall be repeated. There shall be no visible signs of leakage.

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4.6.7 Pressure drop test. With the adapter connected to a nozzle, the assembly shall be filled with oil and cold soaked at -65° F ambient air temperature for 24 hours. While maintained at this temperature, the following procedure shall be conducted:

- a. Oil conforming to MIL-L-7808 at -65° F shall be flowed through the assembly at the rate of 1 gpm. The maximum pressure drop across the assembly required to establish rated flow shall be determined.
- b. The pressure drop shall then be determined with the oil entering the assembly at -45° F and at a flow rate of 1 gpm. The pressure drop with -45° F oil shall not exceed that shown on MS24476.

Pressure measurements shall be taken at least 10 diameters upstream and 10 diameters downstream from the assembly. Temperature measurements shall be taken 10 diameters upstream of the assembly.

4.6.8 Poppet spring test. The force required to open the poppet valve its full travel shall be determined. The force shall not exceed 15 pounds.

4.6.9 Side load test. The adapter shall be mounted to a test fixture simulating a typical installation. The adapter shall be connected to the nozzle and a 2-pound weight simulating the weight of the hose shall be applied to the hose end of the assembly perpendicular to the center axis for a period of 10 minutes. During this time, oil shall be flowed through the assembly at the rate of 2 gpm with a back pressure of 25 psi. There shall be no leakage during the test. At the completion of this test, the adapter shall be visually inspected for cracks, distortion, or failure, and subjected to the tests of 4.6.2, 4.6.4(a), and 4.6.4(c).

4.6.10 Vibration and leakage test. The adapter shall be mounted to a representative section of aircraft structure and subjected to the vibration test procedure XII of MIL-STD-810. Using MIL-L-7808 oil, hydraulic back pressure equivalent to a 2-foot head of oil shall be maintained in the adapter during the test period. The protective cap shall be installed on the adapter during one-half of the total test period. Following the vibration period, the leakage tests of 4.6.4 shall be repeated. At no time during the test shall the protective cap become loosened or unattached, nor shall there be any visible signs of leakage.

4.6.11 Accelerated corrosion test. The adapter shall be immersed in a solution consisting of 2.5 percent, by weight, of sodium chloride in distilled water. After immersion, the solution shall be drained and the adapter heated in an oven to a temperature of $130^{\circ} + 5^{\circ}$ F for a period of not less than 1 hour. The immersion and heating cycle shall be repeated 50 times. The adapter shall not be operated at any time during these cycles. Immediately after completing the immersion and heating cycles, the adapter shall be thoroughly washed with warm water to remove all salt accumulations. The adapter shall then be dried, wetted with oil, and connected and disconnected for three complete cycles. There shall be no corrosion of any part to a degree which might adversely affect the performance of the adapter.

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4.6.12 Disassembly and inspection. After completion of the tests, the adapter shall be disassembled and inspected. If corrosion, deterioration, or undue wear exists to a degree which could adversely affect performance, the adapter shall be rejected.

4.7 Preservation, packaging, packing, and marking. Preparation for delivery shall be examined for conformance to section 5.

* 5. PACKAGING

* 5.1 Preservation. Preservation and packaging shall be level A or Commercial as specified (see 6.2).

* 5.1.1 Level A. Each adapter shall be preserved and packaged method IA of MIL-P-116.

* 5.1.2 Commercial. Each adapter shall be preserved and packaged in accordance with the requirements of ASTM-D-3951.

* 5.2 Packing. Packing shall be level A, B, C, or commercial as specified (see 6.2).

* 5.2.1 Level A. The adapter, preserved and packaged as specified in 5.1.1, shall be packed in a container conforming to PPP-B-601, overseas type. The closure of shipping containers shall be in accordance with the appendix of the shipping container specification.

* 5.2.2 Level B. Each adapter shall be preserved and packaged as specified in 5.1.1, shall be packed in a container conforming to PPP-B-636, weather resistant or PPP-B-601, domestic type. The closure of the shipping container shall be in accordance with the appendix of the applicable specification.

* 5.2.3 Level C. Each packaged adapter shall be packed in a container conforming to PPP-B-636, domestic, or PPP-B-601, domestic type. The closure shall be in accordance with the appendix of the applicable specification.

* 5.2.4 Commercial. Each packaged adapter shall be packed in accordance with the requirements of ASTM-D-3951.

5.2.5 Palletized loads. When specified (see 6.2) palletized loads, commensurate with the level of packing specified in the contract or order, shall be palletized in accordance with MIL-STD-147. Palletized loads shall be uniform in size and quantities to the greatest extent possible. If the container is of a size which does not conform to any of the pallet patterns specified in MIL-STD-147, the pallet pattern used shall first be approved by the contracting officer.

5.3 Marking. In addition to any special or other identification marking required by the contract (see 6.2), each unit pack, intermediate and exterior container and unitized load shall be marked in accordance with MIL-STD-129 or ASTM-D-3951 as applicable.

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5.4 General.

5.4.1 Exterior containers. Exterior containers (see 5.2.1, 5.2.2, 5.2.3 and 5.2.4) shall be of minimum care and cube consistent with the protection required and shall contain equal quantities of identical stock numbered items to the greatest extent practicable

5.4.2 Packaging inspection. The inspection of these packaging requirements shall be in accordance with 4.7.

6. NOTES

6.1 Intended use. The adapters covered by this specification are intended for use in aircraft turbine engine lubricating oil systems using synthetic oils conforming to MIL-L-7808, MIL-C-8188, or MIL-L-23699.

6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Size of adapter required (see 1.2).
- c. Where the preproduction test samples should be sent, the activity responsible for testing and instructions concerning the submittal of test reports (see 4.3.1 and 4.3.1.2).
- d. Selection of applicable levels of preservation, packaging, packing, marking and commercial/industrial (see 5.1, 5.2, and 5.3).
- e. When palletized loads are required (see 5.4).

6.3 International standardization. Certain provisions of this specification are the subject of international standardization agreements ASCC AIR STDs 11/12 and 17/11 and NATO STANAG 3595. When amendment, revision, or cancellation of this specification is proposed which will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels including departmental standardization offices to change the agreement or make other appropriate accommodations.

6.4 Provisions for qualification. With respect to products requiring qualification, awards will be made only for products which are, at the time set for opening of bids, qualified for inclusion in Qualified Products List (QPL No.) whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. The activity responsible for the Qualified Products List is San Antonio ALC/MMIRAD, Kelly AFB, TX 78241 and information pertaining to qualification of products may be obtained from that activity.

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6.5 Changes from previous issue. The margins of this specification are marked with asterisks (or vertical lines) to indicate where changes (additions, modifications, corrections, deletions) from the previous issue 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 issue.

6.6 Subject term (key word) listing.

Adapter
Oil
Lubricating
Aircraft Servicing
Self-Sealing Shutoff

Custodian:
Navy - AS
Air Force - 99

Preparing activity:
Air Force - 82

Review activity:
DLA - CS

(Project 4730-0786)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)***1. DOCUMENT NUMBER**

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2. DOCUMENT TITLE

Adapter, Pressure Lubricating Oil Servicing, Aircraft

3a. NAME OF SUBMITTING ORGANIZATION**4. TYPE OF ORGANIZATION (Mark one)** VENDOR USER MANUFACTURER OTHER (Specify): _____**b. ADDRESS (Street, City, State, ZIP Code)****5. PROBLEM AREAS****a. Paragraph Number and Wording:****b. Recommended Wording:****c. Reason/Rationale for Recommendation:****6. REMARKS****7a. NAME OF SUBMITTER (Last, First, MI) - Optional****b. WORK TELEPHONE NUMBER (Include Area Code) - Optional****c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional****8. DATE OF SUBMISSION (YYMMDD)**