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Superseding ARP1288A

Placarding of Aircraft Hydraulic Equipment  
to Identify Phosphate Ester Fluid Compatibility

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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## FOREWORD

Phosphate ester base fire-resistant hydraulic fluid per AS1241 is used in a large percentage of the world's commercial jet transport aircraft. Since many components (such as engine-driven pumps and system valves) are similar in external appearance but used in systems with the different type fluids, it is essential that the fluid use requirements be identified on the external surface of the assembly. Installation of a component in a commercial aircraft system wherein the system fluid is not compatible with materials in the unit will adversely affect operational reliability of the assembly and promote malfunctioning.

Personnel of overhaul shops, parts stores depots, parts pooling agencies, and other commercial aircraft maintenance/operational groups will find the recommended identification placard of assistance and reassurance when processing and/or handling hydraulic system components.

An International Standard, ISO 3323, addresses placarding for a broader variety of fluid applications.

#### 1. SCOPE:

This ARP defines a recommended placard for readily identifying equipment with aircraft phosphate ester fluid to be used in the aircraft hydraulic systems to assure compatibility between the internal seals/materials and the system fluid.

A definition is provided for a durable type and semipermanently attached placard with prescribed text for the permissible fluid are included in the document.

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## 2. REFERENCES:

### 2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AS1241 Fire Resistant Phosphate Ester Hydraulic Fluid for Aircraft

### 2.2 ANSI Publications:

ISO 3323 Aircraft-Hydraulic Components - Marking to indicate fluid for which component is approved

## 3. TECHNICAL REQUIREMENTS:

### 3.1 Placard Definition:

A placard shall be attached to the external surface of all components installed in the aircraft hydraulic system. Text data on the placard shall indicate use with only phosphate ester based fluid.

3.1.1 Material: The placard shall be fabricated from a durable material that will resist damage or deterioration from exposure to the component's environmental and operational conditions and to the fluid's vapor or liquid state.

3.1.2 Color: The background color on the placard shall be a permanently-applied surface of purple color. Color application shall be impervious to damage or deterioration from the component's environmental and operational conditions and from exposure to any type of subject fluid.

3.1.3 Text Data: Fluid identifying data stating:

USE SAE AS1241 OR EQUIVALENT FLUID ONLY

shall be applied to the placard surface.

3.1.4 Dimensions: Overall dimensions of the placard shall provide a reasonable size as permitted by the component's external shape and size and provide text legibility. Minimum size of the placard shall be 10 mm x 40 mm. Minimum height of the text data characters on the placard shall be 4 mm.

3.1.5 Placard Installation: The placard shall be assembled on the external surface of the component by semipermanent installation (screws, drive nails, bands or adhesive backing are considered to provide a semipermanent assembly). Type of installation for the placard shall be selected by the requirement of being resistant to the environmental and operational conditions for the component. The placard shall be readily visible to personnel handling the component and preferably when the component is installed in the aircraft.