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| EASA | AIRWORTHINESS DIRECTIVE |
|  | <p>AD No.: 2010-0086</p> <p>Date: 04 May 2010</p> <p>Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p> |
| This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption]. | |
| Type Approval Holder's Name : AIRBUS | Type/Model Designation: A330 and A340 aeroplanes |
| TCDS Number : EASA.A.004, EASA.A.015 | |
| Foreign AD : Not applicable | |
| Supersedure : None | |
| ATA 92 | Electric and Electronic Common Installation – Hydraulic Pump Electrical Motor Connectors – Modification |
| Manufacturer(s): | Airbus (formerly Airbus Industrie) |
| Applicability: | <p>Airbus A330 aeroplanes, models -201, -202, -203, -223, -243, -301, -302, -303, -321, -322, -323, -341, -342 and -343, all manufacturer serial numbers, except those on which the three Airbus modifications 58773 and 55923S18878 and 45968 have been embodied in production.</p> <p>Airbus A340 aeroplanes, models -211, -212, -213, -311, -312, -313, all manufacturer serial numbers, except those on which the three Airbus modifications 58773 and 55923S18878 and 45968 have been embodied in production.</p> <p>Airbus A340 aeroplanes, models -541, -542, -642 and -643, all manufacturer serial numbers, except those on which the three Airbus modifications 58773 and 55924S19452 and 45968 have been embodied in production.</p> |
| Reason: | <p>Several A330 and A340 operators have reported in service occurrences of hydraulic pump electrical motor connector internal arcing, resulting in:</p> <ul style="list-style-type: none"> - either false hydraulic system overheat Electronic Centralized Aircraft Monitoring (ECAM) warnings - and / or hydraulic pump electrical motor malfunction. <p>Investigations have shown that, due to the manufacturing tolerances of the cables and the connectors rear grommet, there is a possible path for fluid ingress, resulting in connector internal arcing and hydraulic system</p> |

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| | <p>malfunction. In addition, as the connectors are located in areas adjacent to fuel tanks, such arcing associated with the presence of a fuel leakage could lead to an uncontrolled fire.</p> <p>In order to protect the hydraulic pump electrical motor connectors against fluid ingress from the rear of the connector grommet and prevent false hydraulic system overheat ECAM warnings and/or hydraulic pump electrical motor malfunction, this AD requires modification of the three hydraulic pump electrical motor connectors associated to the Blue, Yellow and Green hydraulic systems.</p> |
| Effective Date: | 18 May 2010 |
| Required action(s) and Compliance Time(s): | <p>Required as indicated, unless already accomplished :</p> <p>Within 3 600 flight hours after the effective date of this AD, modify the hydraulic pump electrical motor connectors of the Blue, Yellow and Green Electric Pumps in accordance with the instructions detailed in Airbus Service Bulletin (SB) A330-92-3088, or Airbus SB A340-92-4081, or Airbus SB A340-92-5053, as applicable to the aeroplane model.</p> |
| Ref. Publications: | <p>Airbus Service Bulletin A330-92-3088 at Original issue, Airbus Service Bulletin A340-92-4081 at Original issue, Airbus Service Bulletin A340-92-5053 at Original issue.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p> |
| Remarks: | <ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. This AD was posted on 19 February 2010 as PAD 10-019 for consultation until 19 March 2010. The Comment Response Document can be found at http://easa.europa.eu/. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS SAS – Airworthiness Office - EAL. Fax: +33 5 61 93 45 80. E-mail: airworthiness.A330-A340@airbus.com. |