


EASA	AIRWORTHINESS DIRECTIVE	
	<p>AD No.: 2011-0170</p> <p>Date: 07 September 2011</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>	
<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].</p>		
<p>Type Approval Holder's Name :</p> <p>AIRBUS</p>	<p>Type/Model designation(s) :</p> <p>A330 and A340-200/-300 aeroplanes</p>	
<p>TCDS Numbers:</p>	<p>EASA.A.004, EASA.A.015</p>	
<p>Foreign AD:</p>	<p>Not applicable</p>	
<p>Supersedure:</p>	<p>None</p>	
<p>ATA 32</p>	<p>Landing Gear – Main Landing Gear (MLG) Wheel Axle - Reduced Life Limit Following Repair</p>	
<p>Manufacturer(s):</p>	<p>Airbus (formerly Airbus Industrie)</p>	
<p>Applicability:</p>	<p>Airbus A330-201, A330-202, A330-203, A330-223, A330-243, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342 and A330-343 aeroplanes, all manufacturer serial numbers, except those on which Airbus modification 54500 has been embodied in production.</p> <p>Airbus A340-211, A340-212, A340-213, A340-311, A340-312 and A340-313 aeroplanes, all manufacturer serial numbers, except those on which Airbus modification 54500 has been embodied in production.</p>	
<p>Reason:</p>	<p>EASA has received a report via Airbus and Messier-Bugatti-Dowty Ltd, from a Maintenance repair organisation, concerning a specific repair, accomplished on certain MLG wheel axles. Investigations revealed that the axles have been machined with a radius as small as 0.4 mm.</p> <p>This condition, if not corrected, has a detrimental effect on the fatigue lives of these parts, possibly affecting the structural integrity of the aeroplane. Fatigue analyses were performed, the results of which indicated that the life limit of the affected MLG wheel axles must be reduced to below the one stated in the A330 and A340 Airbus Airworthiness Limitation Section (ALS) Part 1.</p> <p>For the reasons described above, this AD requires the replacement of the MLG wheel axles before reaching the new reduced demonstrated life limit.</p>	
<p>Effective Date:</p>	<p>21 September 2011</p>	

Required Action(s)
and Compliance
Time(s):

Required as indicated, unless accomplished previously:

For the purpose of this AD, an **affected MLG wheel axle** is defined as a MLG axle having a Part Number (P/N) and Serial Number (S/N) listed in the Appendix 1 Part 1 of Airbus All Operator Telex (AOT) A330-32A-3256, or of Airbus AOT A340-32A-4292, as applicable to the aeroplane type.

- (1) Within the compliance time specified in paragraph (1.1) or (1.2) of this AD, whichever occurs later, replace the affected MLG wheel axle by a serviceable part in accordance with the instructions of Airbus AOT A330-32A-3256 or Airbus AOT A340-32A-4292, as applicable to the aeroplane type
- (1.1) Before the accumulation of the flight hours (FH) or landings (LDG), whichever occurs first, as defined in Table 1 of this AD, as applicable to aeroplane type, model and Weight Variant (WV).

Table 1 - Post repair MLG Wheel Axle life limit

Affected aeroplanes	Post-repair MLG Wheel Axle Life Limit (see Note 1)
A340-311/-312/-313 WV00 series	4 700 LDG or 22 250 FH
A340-211/-212/-213 WV00 series	4 600 LDG or 29 000 FH
A340-313 WV02 and WV05 series	3 950 LDG or 16 900 FH
A330-301/-321/-322/-341/-342 WV00 and WV01 series	5 050 LDG or 15 200 FH
A330-201/-202/-203/-223/-243 WV02, WV05 and WV06 series	4 450 LDG or 17 900 FH
A330-301/-302/-303/-323/-342/-343 WV02 and WV05 series	5 150 LDG or 13 450 FH

Note 1: The **Post repair MLG Wheel Axle life limit** must be counted from the date of installation of the MLG wheel axle on an aeroplane which occurs after the date of repair specified in the Appendix 1 Part 1 of Airbus AOT A330-32A-3256 or Airbus AOT A340-32A-4292, as applicable to the aeroplane type.

or,

- (1.2) Within 24 months after the effective date of this AD, without exceeding the FH or LDG, whichever occurs first, as defined in Table 2 of this AD, as applicable to aeroplane type, model and WV.

Table 2

Post repair MLG Wheel Axle FH or LDG not to be exceeded

Affected aeroplanes	Post-repair MLG Wheel Axle FH or LDG, not to be exceeded (see Note 2)
A340-311/-312/-313 WV00 series	7 830 LDG or 37 080 FH
A340-211/-212/-213 WV00 series	7 660 LDG or 48 330 FH
A340-313 WV02 and	6 580 LDG or 28 160 FH

	<table border="1"> <tr> <td>WV05 series</td> <td></td> </tr> <tr> <td>A330-301/-321/-322/-341/-342 WV00 and WV01 series</td> <td>8 410 LDG or 25 330 FH</td> </tr> <tr> <td>A330-201/-202/-203/-223/-243 WV02, WV05 and WV06 series</td> <td>7 410 LDG or 29 830 FH</td> </tr> <tr> <td>A330-301/-302/-303/-323/-342/-343 WV02 and WV05 series</td> <td>8 580 LDG or 22 580 FH</td> </tr> </table> <p>Note 2 : The Post repair MLG Wheel Axle FH or LDG not to be exceeded must be counted from the date of installation of the MLG wheel axle on an aeroplane which occurs after the date of repair specified in the Appendix 1 Part 1 of Airbus AOT A330-32A-3256 or of Airbus AOT A340-32A-4292, as applicable to the aeroplane type.</p> <p>(2) After the effective date of this AD, an affected MLG wheel axle can be installed on an aeroplane, provided the MLG wheel axle has not exceeded the limits defined in Table 1 of this AD and it is replaced with a serviceable part before reaching the life limit defined in Table 1 of this AD.</p> <p>Note 3: After removal from an aeroplane, an affected MLG wheel axle that has reached its life limit is considered an unserviceable part.</p> <p>Note 4: The term "Life limit" used in this AD has to be understood as a post-repair life limit.</p>	WV05 series		A330-301/-321/-322/-341/-342 WV00 and WV01 series	8 410 LDG or 25 330 FH	A330-201/-202/-203/-223/-243 WV02, WV05 and WV06 series	7 410 LDG or 29 830 FH	A330-301/-302/-303/-323/-342/-343 WV02 and WV05 series	8 580 LDG or 22 580 FH
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Ref. Publications:	<p>Airbus AOT A330-32A-3256 original issue, dated 24 August 2011.</p> <p>Airbus AOT A340-32A-4292 original issue, dated 24 August 2011.</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. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive 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 – Airworthiness Office – EIAL, Fax: + 33 5 61 93 45 80 or + 33 5 61 93 44 51; E-mail: airworthiness.A330-A340@airbus.com. 								