


<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<b>AD N° : 2005-0023</b>  <b>Issued/Date: 26th October 2005</b>

No person may operate a product to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.

<b>Type Approval Holder's Name:</b>  <b>Lycoming Engines</b>	<b>Type/Model designation(s):</b>  <b>All Lycoming Piston Engines</b>
<b>TCDS Number:</b> FAA 1E1, 1E4, 1E7, 1E10, 1E11, E10EA, E11EA, 1E12, 1E13, 1E14, E14EA,, 1E15, E16EA, E19EA, E26EA, E0004NY, E-223, E-228, E-229, E-256, E-274, E-275, E-276, E-277, E-279, E-284, E-285, E-286, E-295, E-304, TC 199, TC 210, TC 227	
<b>Foreign AD:</b> None	
<b>Supersedure:</b> This AD supersedes AD's in several EU Member States including France 1999-088(A) R3, and Netherlands NL 1994-046/3	

### ATA 72 – Exhaust valve and guide – Inspection

<b>Manufacturer:</b>	Lycoming Engines (Formerly Textron Lycoming)
<b>Applicability:</b>	All Lycoming piston engine models identified by the above FAA TCDS's, installed in aeroplanes and rotorcraft.
<b>Reason:</b>	<p>To prevent exhaust valve sticking and power loss.</p> <p>This problem was formerly addressed by national Airworthiness Directive or other mandatory maintenance requirement in several European Union Member States.</p>
<b>Effective Date:</b>	1st Nov 2005
<b>Compliance:</b>	<p>a) Carry out inspection of exhaust valves and guides in accordance with Lycoming Service Bulletin No. 388C dated November 22, 2004 at the intervals indicated in Paragraphs 1 and 2 below. The inspections must be carried out in accordance with the procedures defined in Part 1 or Part 2-A.</p> <p>b) If the results of the inspection are outside the recommended limits, carry out the rectification actions defined in the Service Bulletin.</p> <p>c) Record inspection valve guide clearance measurements, and incorporation status of SI 1485A if applicable, in the engine logbook.</p>

	<p><b>1. Rotorcraft Engines</b></p> <p>i) Exhaust Valves and Guides not previously inspected in accordance with Lycoming SB 388 :</p> <ol style="list-style-type: none"> <li>Inspect before completing 50 operating hours from the effective date of this AD, or 300 hours operating time since new/overhaul, whichever occurs later.</li> <li>Thereafter, repeat at an interval not to exceed 300 operating hours.</li> </ol> <p>ii) Exhaust Valves and Guides previously inspected in accordance with Lycoming SB 388 :</p> <ol style="list-style-type: none"> <li>Inspect within 300 operating hours of the previous inspection.</li> <li>Thereafter, repeat at an interval not to exceed 300 operating hours.</li> </ol> <p><b>2. Aeroplane Engines</b></p> <p>A. Within 120 days of the effective date of this AD, establish whether the engine is fitted with the "Hi-Chrome" Exhaust Valve Guide, by referring to Lycoming Service Instruction 1485A.</p> <p>B. Aeroplane Engines not fitted with "Hi-Chrome" exhaust valve guide.</p> <p>i) Exhaust Valves and Guides not previously inspected in accordance with Lycoming SB 388:</p> <ol style="list-style-type: none"> <li>Inspect before completing 50 operating hours from the effective date of this AD, or 400 hours operating time since new/overhaul, whichever occurs later.</li> <li>Thereafter, repeat at an interval not to exceed 400 operating hours.</li> </ol> <p>ii) Exhaust Valves and Guides previously inspected in accordance with Lycoming SB 388 :</p> <ol style="list-style-type: none"> <li>Inspect within 400 operating hours of the previous inspection.</li> <li>Thereafter, repeat at an interval not to exceed 400 operating hours.</li> </ol> <p>C. Aeroplane Engines fitted with "Hi-Chrome" exhaust valve guide.</p> <ol style="list-style-type: none"> <li>Carry out the inspection prior to reaching 1000 hours TSN/TSO, or within 50 operating hours of the effective date of this AD, whichever occurs latest.</li> <li>Thereafter, repeat at an interval not to exceed 1000 operating hours.</li> </ol>
<b>Ref. Publications:</b>	<p>Lycoming Service Bulletin No. 388C dated 22 November 2004; Lycoming Service Instruction 1485A dated July 2, 2003;</p> <p>Lycoming Engines, 652 Oliver Street, Williamsport, PA 17701, USA Tel.: 001-570-323-6181; Fax: 001-570-327-7101 <a href="http://www.lycoming.textron.com">www.lycoming.textron.com</a></p>
<b>Remarks:</b>	<p>This AD was posted as PAD 05-002 for consultation on 21 February 2005 with a comment period until 31 March 2005. The Comment Response Document can be found at <a href="http://www.easa.eu.int/home/aw_dir_en.html">http://www.easa.eu.int/home/aw_dir_en.html</a></p> <p>Enquiries regarding this Airworthiness Directive should be referred to: Mr Angus Abrams, EASA Project Certification Manager Propulsion; <a href="mailto:angus.abrams@easa.eu.int">angus.abrams@easa.eu.int</a> EASA Ottoplatz 1, D-50679, Cologne Germany</p>