

SERVICE INFORMATION NO. SI 40-025

NOTE: SI's are used **only**:

- 1) To distribute information from DAI to our customers.
- 2) To distribute applicable information / documents from our suppliers to our customers with additional information.

Typically there is no revision service for SI's. Each new information or change of that will be send along with a new SI.

I. TECHNICAL DETAILS

1.1 Airplanes affected:

All DA 40 and DA 40 F aircraft

1.2 Subject:

EASA AD 2005-0023, Lycoming SB and SI for
Exhaust valve and guide - Inspection
ATA-Code: 72-00

1.3 Reason:

EASA has issued an Airworthiness Directive requiring the inspection of the exhaust valve and guide of the Lycoming engine.


1.4 Information:

For detailed technical information see EASA Airworthiness Directive which is applicable without any further additions or restrictions.

II. OTHERS

The EASA Airworthiness Directive No.: 2005-0023 is attached to this SI.

In case of doubt contact Diamond Aircraft Industries.

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

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.

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| Type Approval Holder's Name: Lycoming Engines | Type/Model designation(s): All Lycoming Piston Engines |
| TCDS Number: FAA 1E1, 1E4, 1E7, 1E10, 1E11, E10EA, E11EA, 1E12, 1E13, 1E14, E14EA,, 1E15, E16EA, E19EA, E26EA, E00004NY, 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 | |
| Foreign AD: None | |
| Supersedure: This AD supersedes AD's in several EU Member States including France 1999-088(A) R3, and Netherlands NL 1994-046/3 | |

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| ATA 72 – Exhaust valve and guide – Inspection |
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| Manufacturer: | Lycoming Engines (Formerly Textron Lycoming) |
| Applicability: | All Lycoming piston engine models identified by the above FAA TCDS's, installed in aeroplanes and rotorcraft. |
| Reason: | To prevent exhaust valve sticking and power loss. This problem was formerly addressed by national Airworthiness Directive or other mandatory maintenance requirement in several European Union Member States. |
| Effective Date: | 1st Nov 2005 |
| Compliance: | <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> |

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| | <p>1. Rotorcraft Engines</p> <p>i) Exhaust Valves and Guides not previously inspected in accordance with Lycoming SB 388 :</p> <ol style="list-style-type: none"> a. Inspect before completing 50 operating hours from the effective date of this AD, or 300 hours operating time since new/overhaul, whichever occurs later. b. Thereafter, repeat at an interval not to exceed 300 operating hours. <p>ii) Exhaust Valves and Guides previously inspected in accordance with Lycoming SB 388 :</p> <ol style="list-style-type: none"> a. Inspect within 300 operating hours of the previous inspection. b. Thereafter, repeat at an interval not to exceed 300 operating hours. <p>2. Aeroplane Engines</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"> a. Inspect before completing 50 operating hours from the effective date of this AD, or 400 hours operating time since new/overhaul, whichever occurs later. b. Thereafter, repeat at an interval not to exceed 400 operating hours. <p>ii) Exhaust Valves and Guides previously inspected in accordance with Lycoming SB 388 :</p> <ol style="list-style-type: none"> a. Inspect within 400 operating hours of the previous inspection. b. Thereafter, repeat at an interval not to exceed 400 operating hours. <p>C. Aeroplane Engines fitted with "Hi-Chrome" exhaust valve guide.</p> <ol style="list-style-type: none"> a. 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. b. Thereafter, repeat at an interval not to exceed 1000 operating hours. |
| Ref. Publications: | <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 www.lycoming.textron.com</p> |
| Remarks: | <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 http://www.easa.eu.int/home/aw_dir_en.html</p> <p>Enquiries regarding this Airworthiness Directive should be referred to: Mr Angus Abrams, EASA Project Certification Manager Propulsion; angus.abrams@easa.eu.int EASA Ottoplatz 1, D-50679, Cologne Germany</p> |