

TISKAŘSKÁ 8, 100 38 PRAHA 10, CZECH REPUBLIC

## MANDATORY BULLETIN No.: LOM-MB-05a/2010

*Refers to:* Usage of engine oils with higher kinematic viscosity for summer operation of the M337, M332, M137, M132 engines of all versions, at which a drop in oil pressure occurs at idle running to the value of 100 kPa at oil temperature on engine oil inlet higher than 65°C and air temperature higher than 20°C. Application of experience from operation of the Z-142 CAF aircraft with the M337AK.1 engines for other engines.

*Reason:* Recommended engine oils of the viscosity grade SAE-50 may owing to drop of viscosity at oil temperatures on engine air intake higher than 65°C at engine idle running on the ground cause drop in oil pressure at idle running under the lower permitted value of 120 kPa.

*Measures:* In operation of engines of the M337, M332, M137, M132 series of all versions upon occurrence of drop in oil pressure – see the reason – in the summer season use the oils of SAE-60 viscosity grade, for example:

**For running-in – mineral oils as per SAE J- 1966 and MIL-L-6082E, GRADE 1100:**

AeroShell Oil 120, ExxonMobil Aviation Oil 120.

**For permanent operation – dispersing (additive) oils as per SAE- J1899 and MIL-L 22851D:**

AeroShell Oil W120, ExxonMobil Aero Oil EE120, TOTAL Aero D 120.

**Transition to summer operation:**

Upon transition to summer operation, replace the oil with designation 100 by 120.

**Transition to winter operation:**

Upon transition to winter operation it is possible to add the additive oil 100 into the additive oil having designation 120. Oils with designation 100 and 120 according to the same norm (oils of the same type) may be mixed.

**When replacing and refilling oils follow the principles of the Service Letter LOM No. 0001-2004 and prevent mixing the mineral oil (non-additive) with the dispersing oil (additive)!**

**Calendar period for usage:**

Usage of the oil designated 120 in the period from 1<sup>st</sup> May till 30<sup>th</sup> September.

*Notification:* Holder of the TC recommends the summer operation – see the calendar period for usage - at all M337, M332, M137, M132 engines of all versions, regardless an occurrence of drop in oil pressure – see the reason.

*Validity:* 26<sup>th</sup> August 2010.

*In Prague, on::* 26<sup>th</sup> August 2010 Approved on basis of authority of DOA No. EASA.21J.306.

*Approved by:* Ing. Petr Prokop, MBA,  
Head of Design Organisation