

Subject: 1. E10 fuel use approval (Unleaded gasoline blended with 10% ethanol)
2. WT-9 Dynamic Normal procedures for Airplane securing modification

Affected: WT-9 Dynamic, all serial numbers and models

Compliance: Immediately

Mass data: Weight change – none
Moment change – none

Reason: 1. Following the Rotax engine manufacturer Service instruction No. SI-912-016 R2 and SI-914-019 R2 relating to E10 fuel use approval the WT-9 Dynamic aircraft's manufacturer has performed tests of E10 influence on WT-9 Dynamic fuel supply system.
2. Pursuant the Rotax engine manufacturer Service Letter No. SL-912-016 relating to Rotax 912 engine essential information the WT-9 Dynamic aircraft's manufacturer has performed a modification of the Normal procedures for airplane securing noticed in WT-9 Dynamic Flight Manual, Chapter 4.

In connection with the E10 fuel use the WT-9 Dynamic's manufacturer call attention to some specific features of the ethanol contained in E10 fuel and its potential adverse effects. Ethanol is well miscible with gasoline but also completely miscible with water. Therefore the water present in the tanks in form of droplet or moisture will be absorbed by E 10 fuel. If the water amount in the tank overreaches the ethanol's ability to remain blended with gasoline, the ethanol migrates to the water. This is resulting to an inhomogeneous blend of gasoline and ethanol, characterized by a gasoline's layer on the top of the tank and the concentrated ethanol's layer in the lowest part of the tank.

Engine operation on concentrated ethanol stored in the tank's lowest part may result in engine performance variation and ignition problems. Running on ethanol could affect engine oil lubrication ability and water presence in the ethanol could create vital engine part's and fuel delivery system's corrosion.

Arrangements: Replace the pages 0-1, 0-2, 2-1, 2-3, 2-6 and 4-12 in the Flight Manual with new ones dated 05th October 2009, Revision 8 (for the model with fixed and retractable undercarriage)
Replace the pages 0-2, 0-3 1-24, 3-14 in the Operating, Maintenance and Repair Manual with new ones dated 05th October 2009, Revision 4

Material information: Changed pages 0-1, 0-2, 2-1, 2-3, 2-6 and 4-12 of the Flight Manual and changed pages 0-2, 0-3 1-24, 3-14 of the Operating, Maintenance and Repair Manual are an appendix to this Bulletin.

Documentation: - Make note about the change in Flight Manual, page 0-1, "Record of revisions"
- Make note about the change in Operating, Maintenance and Repair Manual, page 0-2, "Record of revisions"

Prievidza, 05th October 2009

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Approved: **21 -01- 2010**

Approved by: CAA of Slovak republic

