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SERVICE BULLETIN #39

DATE: August 25, 1994

SUBJECT: Rotax 912 Lubrication Systems

APPLICABILITY: All Aircraft Equipped with the Rotax 912 Engine

COMPLIANCE: As required

FROM: SkyStar Aircraft Engineering

Rotax has issued strongly worded service information (a copy of which is enclosed) regarding the importance of adhering to correct installation procedures of the oil fittings, lines, and oil coolers with the 912 engine. Their concern is that any restriction in the lines from the engine to the oil tank, and from the oil tank to the engine, may severely reduce the flow of oil within the engine. This is because the oil circulates by pressure from crankcase blow-by, and by the suction pressure produced by the oil pump; both of these pressures are relatively low, and can be overcome by any restrictions caused by too small a diameter oil line, too many (and too tight) bends in the lines, or a restricted oil cooler.

Rotax recommends that only their oil cooler be used; however, our testing indicates that the cooler that we supply has even less restriction than the cooler Rotax sells. They have also specified a test procedure that ensures that the oil system is flowing properly.

We believe that the test procedure is a good way of demonstrating the operating efficiency of your oil system. We strongly recommend that the procedure be carried out if you have a) any oil cooler other than that supplied by SkyStar or Rotax; b) any oil hose in the system other than that supplied by Rotax and furnished through SkyStar; c) any other modifications to the oil system that might in any way increase the resistance to flow; or d) any doubts whatsoever about the functioning of your oil system.

We have developed a testing kit that is available to our customers on a deposit basis. The tests are easily performed, and are a good way of insuring your peace of mind. Contact Customer Service at 208-466-1711 to request the kit, or if you have any questions regarding this Service Bulletin.