

SERVICE



LETTER

Service Letter No. 178

August 24, 1951

To: All Distributors, Dealers and Owners

Subject: Optional Oil Radiator Installation on Model PA-18 Airplanes

We have received several reports from the field that some engines on PA-18 airplanes, used for special purposes such as spraying and dusting, are running at what is considered excessive oil temperatures. We would like to point out that the maximum oil temperature on this engine, as approved after a 150 hour test at this temperature, is 245°F., and that this temperature may frequently be reached when outside air temperatures are 100° or over. Indicated temperatures of approximately 245° on very hot days should not cause concern.

In the operation of agricultural airplanes, the increased drag of the spray or dust unit, the high useful loads carried, and the very hot outside air temperatures in some parts of the country all tend to increase the oil temperature over that experienced in standard planes. Furthermore, factory oil cooling tests indicate that oil temperatures can go far beyond normal if too much oil is carried in the engine sump. Putting in a pint or a quart of oil over the specified 8 quarts may raise the temperature as much as 30°. It is recommended that the oil level be maintained at approximately 7-1/2 quarts.

For the airplanes which are operated in such a manner as to cause extreme oil temperatures, we have developed an Auxiliary Oil Radiator Kit which will reduce the oil temperature about 20°. The Kit includes a standard radiator which is mounted externally on the left side of the fuselage cowl behind the present radiator, an attaching plate, one extra line, and fittings for connecting the outside radiator to the standard inside radiator. Installation time on the Kit is estimated at 2 hours.

The Auxiliary Oil Radiator Kit, Part No. 752 226, is available at factory cost to all operators of PA-18's who feel that additional oil cooling is advisable. The net price is \$17.50 and the Kit can be obtained by writing directly to the Service Department, Piper Aircraft Corporation.

The outside radiator installation is intended as a quick, effective means of reducing oil temperatures on sprayer or duster airplanes on which the factors of drag and appearance are not as important as on other models. This should be taken into consideration in placing orders for the Kits.

Very truly yours,

PIPER AIRCRAFT CORPORATION


Rolland Boardman
Service Manager

J:lh:s

PIPER AIRCRAFT CORPORATION, LOCK HAVEN, PA., U. S. A.