



REPUBLIC AVIATION CORPORATION
FARMINGDALE, LONG ISLAND, NEW YORK
SERVICE DEPARTMENT

SEPTEMBER 15, 1947

HARTZELL PROPELLER COMPANY BULLETIN NO. 3

SUBJECT: WATERPROOF GREASES RECOMMENDED FOR MODEL HC-12X20 PROPELLER

1. Experience has brought to light the fact that water sometimes gets into the propeller blade clamp assembly, particularly on Sea Bee installations. This water will mix with certain types of grease and cause them to become hard and chalky in consistency. This may result in poor operation of the propeller, as the blades may become tight on the pilot tubes.

2. A number of greases have been tested for water resistance, tackiness, lubricating properties when mixed with water, and viscosity under various temperatures. The following greases are recommended in the order of listing:

- (a) Stroma HT-1 (Z-801 Grease)
Union Oil Company of California
- (b) Lubriplate 630AA
Fiske Brothers, Toledo, OH.
- (c) Stroma LT-1 (Z-815 Grease)
Union Oil Company of California
- (d) Lubriplate 707
Fiske Brothers, Toledo, OH.
- (e) Mobilgrease Aero
Lo-Hi PD-535-K
Secony Vacuum Oil Co.

3. Other grease previously recommended in the service manual are deficient as to water and should not be used.

4. If the airplane is left out of doors in the rain, the propeller should be horizontal to avoid water getting into blade clamps.