

## COLD WEATHER START-UP PROCEDURE

Manually move throwing arm to approx. firing position. Turn trap on and let motor run at least 15 minutes before cycling trap, or replace speed reducer oil with one more suitable for temperature. See chart below for recommended lubricants.

ENGINEERING SERVICE BULLETIN  
IL - 76

### LUBRICANTS FOR SPEED REDUCERS

#### WORM GEAR REDUCERS

Ambient Temperature	-30 to 15°F	16 to 50°F	51 to 110°F	111 to 165°F
Max. Operating Temp.	150	185	225	225
Viscosity at 210°F, SUS	40 to 90	90 to 125	125 to 190	190 to 350
Compounded with	(Optional)	3 to 10% Acidless Tallow or E. P. Base	3 to 10% Acidless Tallow or E. P. Base	3 to 10% Acidless Tallow or E. P. Base
AGMA Lubricant		No. 7 Compound	No. 8 Compound	
Cities Service Oil Co.	Pacemaker Oil No. 1	Trojan Compound L-2	Trojan Compound L-4	Trojan Compound L-5
Fiske Bros. Refining Co.	Lubriplate No.3	Lubriplate No.8	Lubriplate No.8	Lubriplate APG No.250
Gulf Oil Corporation	Multi Purp. Gear. Lub. No.80	E.P. Lubricant No.115	E.P. Lubricant No.145	E.P.Lubricant No.250
Shell Oil Company	Macoma Oil No.33	Macoma Oil No.69	Valvata Oil No.J 78	Valvata Oil No.J 83
Sinclair Refining Co.	Duro Oil No.160	No.87 Heavy Duty Oil	Superheat Valve Oil	Pennant E P Oil No.7
Keystone Lub. Co.	78-6 EP Oil	WG-1X Oil	WG-B Oil	No.009 Oil
Sun Oil Company	Sunep No.1070	Sunep No.1110	Sunep No.1150	HV Cylinder Oil
Mobile Oil Co.	Vactra Oil No.2	Mobil Compound No.DD	Mobil Cyl. Oil No.600W	Mobil Cyl. Oil No.600
Texaco	Meropa Lub. No.1	Meropa Lub. No.3	Vanguard 620	Vanguard 620