



## Tena-Film SP-1 Silent Chain Oil

TENA-FILM SP-1 SILENT CHAIN OIL was developed in cooperation with a local wire drawing company in Rome, New York. They were seeking a lubricant that could reduce chain wear and noise level on their rod breakdown. Excessive chain wear was causing elongation resulting in a high noise level from the chain slap. It was necessary to shut down and periodically take up the chain, but progressive wear also leads to early chain failure. These chains are operating at surface speeds of over 5000 ft. per minute from a driving gear running at 1725 rpm.

We found that a combination of additives solved the problem. An additive with extreme oiliness or wetting ability carried the lubricant rapidly into the chain. The use of a colloidal dispersion of Molybdenum Disulfide and a thermally stable organo zinc additive in a very high quality, high V.I. paraffinic oil of SAE 10 viscosity, dramatically reduced the wear and noise. The formulation is further fortified with an oxidation inhibitor, rust inhibitor, pour depressant and anti-foam additive.

TENA-FILM SP-1 SILENT CHAIN OIL will withstand temperatures up to 275° F. for short periods and long term oxidation stability of over 2000 hours at temperatures of 120° – 160° F.

The lubricant is designed for enclosed oil bath type chain drive units. It is effective for both silent chains and roller chains.

### TYPICAL SPECIFICATIONS

Viscosity Index, Min	95
Viscosity @ 100° F. sec. Saybolt Universal	195-205
Viscosity @ 210° F. sec. Saybolt Universal	46
Color	Opaque – Gray-Black
Flash Point, C.O.C. °F.	410
Fire Pint, C.O.C. ° F.	460
Pour Point, ° F.	-25