

NITRO-9 ZP-900

Super Concentrated

Hydraulic Antifoam

BENEFITS OF ZP-900:

- Stops Foaming
- Stops Cavitation
- Reduce Friction Heat
- Reduce Hose Rupture
- Reduce Oxidation
- Reduce Fluid Loss
- Keeps Seals Pliable

HOW IT WORKS: ZP-900 HYDRAULIC ANTIFOAM is a combination of components designed to allow the user to optimize the additive content of each hydraulic fluid. It contains a wet anti-wear lubricant and dry dielectric lubricant, pour point depressant, viscosity index improver, foam reducer, oxidation inhibitor and seal revitalizer. This material will not reduce fluid lubricating ability as silicone defoamants do, nor will it reduce fluid oxidation life. These components work to fight the most frequent problems encountered in hydraulic systems: wear, heat, oxidation, cavitation and leaks.

ZP-900 wet and dry anti-wear additives take over where conventional fluids break down. Pump, cylinder and valve wear are virtually eliminated by the surface and subsurface lubrication of ZP-900. By forming a barrier against metal to metal contact, it reduces friction allowing increases in the load carrying capacity of the system. Straining on pumps is reduced allowing them to work at maximum efficiency. This also reduces friction heat buildup, resulting in less oxidation, varnish, sludge and acids. Valves are freed and the hydraulic oil lasts longer.

WHAT TO EXPECT: Foaming develops as pumps pull in air and mix it with oil. Air may enter due to faulty seals, low fluid level, or even during normal operation. The result can be disastrous. Excess noise in the pump indicates cavitation, which is the

formation and collapse of vapor bubbles in the oil. When bubbles collapse, the effect is that of miniature hammer blows, which work to destroy the pump. ZP-900 guards against disastrous pump cavitation with a defoamant and against the power losses that occur when bubbles are in the hydraulic system.

ZP-900 reduces the heat load and adds a viscosity index improver to keep oil from thinning out. Eliminate this major headache with ZP-900. At 120°F or below, oil oxidizes very slowly. Above 135°F, the rate of oxidation doubles for each 18° increase in temperature. Oxidation leads to sludging, causes formation of harmful acids and creates more heat. Seals deteriorate and thin hot fluid leaks out. Hoses fail from being exposed to excess heat, resulting in more fluid loss, downtime, and housekeeping problems.

ZP-900 will keep seals pliable, reduce heat and with our defoamant and viscosity improver, keep pumps from cavitating. Another reason for using ZP-900 Hydraulic Antifoam is that as oil seals become brittle, they lose their sealing ability. Leaks result. These leaks can be reduced by increasing oil thickness but this has other negative results, such as encouraging cavitation and increasing heat.

ZP-900 corrects the imbalance with specific components to resolve the basic problems in hydraulic systems. The best answer is ZP-900. Some hydraulic systems will not have the exact fluid for which they were designed. Viscosity may be incorrect. Formulation ingredients may be wrong or in too low a concentration.

APPLICATIONS: ZP-900 is compatible with all standard hydraulic systems. Contact us for special applications.



CUSTOMER RESPONSE:

"We have used ZP-900 Hydraulic Antifoam in our Akerman H3 equipped with a drilling rig. We added the recommended dose of 1:20 and saw an immediate increase of 20% in effect on the drilling rig and speed of drilling." Jostein D. ~ Maskin Company

"This year I decided to use ZP-900 in my harvester which has consistent leaking problems. The reaction in my hydraulic system seems to be quicker than before and no leaks. I'll be using it in all my engines on my farm." Lars L.

"After using ZP-900 we did not need to overhaul the hydraulic driven diamond drill engine. This saved us \$11,000." Fred T. ~ Norway

Norwegian ship The Nordkap uses ZP-900 in water off the North Pole to improve hydraulic operations on deck. The "Tamarco Sailor" saves \$10,000 per trip. ZP-900 keeps deck winches from cavitation while unloading cargo.

• **DIRECTIONS:** Ratio – 1:20. Agitate well. Add one part
• ZP-900 to each 20 parts of hydraulic fluid in the system.
• Compatible with all hydraulic fluids.

• **TECHNICAL:** Liquid – Straw Color - 320∞ Flash Point –
• Reactivity Stable – Do Not Expose to Open Flame –
• Harmful if Ingested

• **CAS#s:** 1317-33-5, 108-88-3, 60-29-7, 68476-346

• **Cavitation of hydraulic pumps is the equipment
operator's worst nightmare.**