

# 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 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 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 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. For special application, write to address below.

**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 "Tramarco Sailor" saves \$10,000 per trip.  
• ZP-900 keeps deck winches from cavitation while  
• unloading cargo.

• **DIRECTIONS:** Ratio – 1:20. 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. ZP-900  
• helps prevent it.**

**From:** Widar Alexander Rom  
Chief Engineer / CEO / ACM Group R&D

AR Anti-Air Pollution Corporation (S) Pte Ltd  
Advance Research for ACM Oil Company

**To:** A.J. Wichita  
President

**Company:** Hi-Tech Oil Blends, Inc.  
Champion Lubricants, Inc.

**Address:** 605 Laguna Drive

Richardson, Texas 75080

**Date:** November 6, 1994

**Time:** 17:54

**Pages:** 2 Page's (including this one)

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**Message:**

Dear Sir,

Thank you for your fax of November 3. 1994.

I brought the interest in this opportunity a little further, maybe into a business development. Some more information on our testing in the racing sector and some business developments to consider.

1. **Racing:** From the last fax to you it was left out that car no 35, also a Suzuki GTi, one of our treated cars, was the winner of the class Group 1N (Standard Cars Up To 1500 cc).
2. **Testing:** QX-900 was tested in a 3 liter Alfa Romeo with heated up fluids in the power steering system. The system run better with the QX-900 and the car's power steering system perform better with less temperatures. So far so good.
2. **Business:** Singapore:  
I have updated my board of directors in ACM and in ARCO that I intend to take up the product line from Champion Lubricants, Inc. and Hi-Tech Oil Blends, Inc. as an exclusive importer and distributor for Singapore.  
  
The benefits for our business have been high-lighted, and they are:
  - a. The fluid's have a history. With proven records in the industry which we can use.
  - b. Nitro-9's packaging is completed with attractive display double units with minimal cost of brochure, since artwork and layout is there already. The color separation and printing cost is minimal for local translation.
  - c. The Champion Lubricants, Inc. products is also in a ready to go state.
  - d. That Champion Lubricants, Inc. and Hi-Tech Oil Blends, Inc. permit us to re-pack and blend their fluids into our own fluids under our own present ACM and Advance Research Label or other label for to be sold local or in any overseas marked.

d. cont. on page two of two.

Lars Lund  
Holøs  
1890 Rakkestad

27.09.89.

Til:  
Champion Marketing Group  
Skovveien 5  
Oslo 2

Hr.Oliversen!

Jeg har nå prøvd deres produkt, QX-900 hydraulikkoljetilsetning, med meget godt resultat.

Helt siden jeg kjøpte min skurtresker har jeg hvert eneste år hatt problemer med at det lekker ut mye hydraulikkolje fra anlegget på min tresker.

I år bestemte jeg meg for å prøve ut QX-900. Jeg blandet ut i forholdet 1:10 i anlegget. Det varte en liten stund før dette begynte å virke, men etter en tid var det ingen oljelekkasje overhodet. Dette trodde jeg ikke var mulig. Det virker også som om jeg får en raskere reaksjon på anlegget enn tidligere.

Jeg er meget godt fornøyd med Champion og vil nå ta i bruk deres produkter i alle mine maskiner på gården. Jeg kan bare anbefale andre bønder å benytte seg av deres produkter.

Hilsen,



Lars Lund

TANSLATION OF THE REFERNCE FROM LARS LUND

I have tryed one of your products, QX 900 for the hydraulic, with very good resluts.

Every year since I bought my harvester I have had problems with hydraulic-oil leaking out from the system.

This year I decided to use QX 900. I mixed it 1:10 in the system. After a while there was no leak at all. I did not beleave this was possible. The reaction in my hydraulic-system seems to be quicker than before.

I am very satisfied with Champion, and will use it in all the engines at my farm.

I recommend other farmers to use your products.

Regards,

# DRUGUDAL MASKIN A/S

Tlf.: (074) 27 835  
Mobil: (090) 88 712

7391 Berkåk

Bank giro: 4227 08 02480

TEKOBOR AS.  
Champion QX smøremidler avd. Trøndelag.  
7385 Storås.

Berkåk 03.04.90

## VEDRØRENDE CHAMPION QX-900 HYDRAULIKKILSETNING:

Vi har nå en tid prøvd deres hydraulikkilsetning på våres maskin Åkermans H3, utstyrt med boretårn. Vi tilsatte foreskrevet dose 1:10, og kunne konstantere en øyeblikkelig effektøkning på maskin og borhastighet. x Effekten ble målt til ca: 20%, og den har siden vært stabil.

Med de gode erfaringer vi har sett på våres maskin, kan vi trygt anbefale dette videre. Vi vil nå ta i bruk CHAMPION QX-900 på våres maskin Åkermans H14.

x: ØVT EFFEKT

Vennlig hilsen

*Jostein Drugudal*  
Jostein Drugudal.

## TRANSLATION OF REFERENCE

DRUGUDAL MASKIN A/S  
7391 BERAK

TO: TEKOBOR  
Champion QX-lubricant dep. Trøndelag

## ABOUT CHAMPION QX-900 FOR THE HYDRAULICS

We have, for a while, used your hydraulic-heat-treat blend in our Akermans H3, equipped with a drilling rig.

We added the recommended dose 1:10, and we saw almost imidiately an increase in effect on both the drilling rig and in the speed of drilling.

The effect increased about 20%, and have been stabile since then.

With our good experiences, we safely recommend this to others. We will start using QX-900 in our other Akermans H 14.

Champion Marketing Group  
Norway A/S  
QX Lubricants Oil Norway A/S  
P O Box 2345 Solli  
0201 Oslo 2  
Norway

Champion Lubricants  
Hi-Tech Oil Blends  
605 Laguna Drive  
Richardson TX

Oslo 29.06.91.

Dear A.J.

Mr. Schanche and Mr. Skogstad, the two Rally-Cross drivers who have used our QX 500, 700 and 800 for more than 4 years, told me before this Rally-Cross season about their problem with the power steering.

The power steering fluid became so hot it was boiling and started to smoke inside their cabins/cars. They have leaks and sometimes they had to stop driving because of the smoke coming from the power steering.


Mr. Schanche and Mr. Skogstad asked me if I had something which could help out this problem. I then told them about our QX 900 Hi-Temp, Anti-Foam Hydraulic Treatment and that it might help them.

Helped them is an understatement. The smoke is gone, the problem with overheating and foaming is gone. They have not had a single problem with their power steering since they started using it. They are very reluctant to give away any information about their success with Champion products, because their competitors may start to use it.

I know that more and more of the drivers are calling in for our product. We sell a lot more product to the Rally and Rally-Cross people.

Now we know another useful application for the QX 900.

Sincerely,



Helge Oliverson  
QX LUB OIL NORWAY