



Application of LubeAID in Hydraulic Systems

LubeAID consists of microscopic copper and lead particles suspended in a special lubricant base, which also acts as a carrier to facilitate even mixing with the oil to which it is to be added.

The copper particles are spherical in shape, approximately 5-7 microns in diameter, and the lead particles, also spherical in shape, are 2-4 microns in diameter.

When mixed with hydraulic, engine, manual transmission, and differential oils in the correct proportions, the particles travel through the fluid circuits, gently cleaning the system, and become embedded in minute voids in the metal surfaces under the rolling or wiping pressure of the components.

They repair minor scarring in shafts and cylinders but do not build up on the surface significantly; otherwise, they would reduce essential operating clearances.

When used in hydraulic systems, LubeAID has been shown to reduce the power necessary to drive the pump, and where high operating temperatures are experienced, temperature reductions up to 40 degrees C (100 degrees F) have been recorded.

Significant noise reduction in power steering pumps has been achieved by adding 25 ml of LubeAID mixed with automatic transmission fluid, added slowly to the reservoir whilst the pump is in operation.

When the LubeAID becomes embedded in the pump surfaces and races, it provides a load carrying capacity up to seven times that of the original lubricant.

When used with Cane Harvester hydraulic systems, we have had excellent results adding 250 ml of LubeAID to the 340 liters of fluid reservoir. In the event of a hose burst, the wobble plate mechanism now has added protection from seizure resulting from the sudden oil loss.

The limiting factor for product use in hydraulic systems are:

- Filters with pore ratings of 5 microns or less will remove the LubeAID.
- When used with a fluid with viscosity below SAE 10, the LubeAID may drop out of suspension when the fluid is hot, due to the product weight.
- LubeAID should not be used in hydraulic systems which employ wet clutches or wet brakes, such as in automatic transmissions.

Directions For Use In Hydraulic Systems

Pre-mix the LubeAID in a ratio of 4ml per liter of hydraulic fluid, and add to the system slowly, preferably with the pump running. Operate for at least 15 minutes before shut-down.

When a system has combined gearbox and hydraulic fluids, use the hydraulic dosage ratio of 4 ml per liter.