

APPLICATIONS PUMPS



OPERATION:

High Water Base Fluids have been around for several years but not until recently have they received widespread interest and usage. H.W.B.F.'s offer many advantages. Because they are generally 95% water, they cost significantly less than petroleum products. H.W.B.F.'s also have the advantage of being readily available, non-polluting and non-compressible. By selecting the appropriate pump, controlling the operating temperatures and checking the water compatibility, H.W.B.F.'s provide numerous advantages and are gaining preference over petroleum products.

In this coal mine, the use of H.W.B.F. is a definite improvement in operation. The Model 6024 CAT PUMP and explosion proof electric motor are stationed outside the mine. The system is equipped with a regulator to maintain precise system pressure. The H.W.B.F. is pumped through hydraulic hoses to the cylinders of several ceiling rams down in the mine. Dependability is a key factor in this operation as the ceiling jacks are supporting the roof of the mine to prevent cave-ins during the removal of coal. With the CAT PUMP they have the security of dependable service and consistent pressure. The design of the CAT PUMP is ideal for handling H.W.B.F. Using the CAT PUMP and H.W.B.F. has reduced the high risk of fires, eliminated the dangerous slippery mine floor previously caused by oil leaking from the hydraulic cylinders and significantly reduced operating costs.

HYDRAULIC POWER WITH HIGH WATER BASE FLUIDS AND HIGH PRESSURE

File No. 190

Section 2

PROBLEM:

To eliminate the potentially dangerous conditions caused by oil leaking from hydraulic cylinders in coal mines applications.

SOLUTION:

Install a CAT PUMP to supply H.W.B.F (High Water Base Fluids) rather than oil to hydraulic cylinders.

SPECIFICATIONS:

CAT PUMPS Model	6024
Pressure	5000 PSI
Flow	12 GPM
Temperature	Ambient
Fluid.....	5% Oil / 95% Water
Drive	Electric

BENEFITS:

- Greatly reduces the fire hazard.
- Eliminates the dangerous slippery mine floor caused by leaking oil.
- Greatly reduces operating costs.
- Consistent fluid delivery and fast pressure build-up.

“Customer confidence is our greatest asset”

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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