

EGACHE-A

Engineer Field Notes

Commanding Officer
70th Engr Bn (Cbt)(A)
ATTN: EGACHE-OP
APO 96297

Commanding Officer
Co A, 70th Engr Bn
APO 96297

27 Sep 69

1. Expedient Five Ton Hydraulic Pump Gaskets

Hydraulic pump gaskets FSN: 2520-740-9082 for five ton dumps have been creating a problem due to their tendency to blow easily and continuously. Manufactured gaskets lack the proper durability and strength. Commercially made aluminum beer and soda cans make very good expedient gaskets. The resilience of aluminum is superior to that of the card-board manufactured product. Since beer and soda cans are readily available, the gasket can be constructed quickly and easily. Result is savings in man hours, dead-line time and manufacturing costs.

Recommended Steps in Construction and Installation of Expedient Five Ton Hydraulic Pump Gaskets:

Step#1-Use an all aluminum can

Step#2-Cut the top off at the seal ring

Step#3-Cut the bottom where the side makes it vertical start

Step#4-Split the side you now have from top to bottom

Step#5-Flatten out the side carefully, leaving no kinks

Step#6-Use 1/4 pound hammer and lay the flat piece of aluminum on the mounting and lightly tap out your gasket

Step#7-Tighten all six of the mounting bolts using the side to side method

NOTE: In mounting, never completely tighten one bolt by itself

Step#8-Continue tightening mounting bolts using side to side method until all mounting bolts are completely tight

2. To prevent clogging pneumatic water pumps when pumping a sandy or silt filled, the pump should be placed in a box so that the water pump will not rest directly on the bottom of the hole. A 2'x2'x3' box works well. On two sides add a heavy gauge screen or wire grill from the top to within 6" of the bottom. If the screen goes all the way to the bottom of the box, it will suck in an excessive amount of sand and silt. Also add two strips of wood to the bottom side of the box. This will hold the pump slightly above the bottom of the box allowing more water to pass through the pump.

3. Due to lack of culvert, 55 gallon barrels (preferably penepime as the coating acts as a rust resister) can supplemented in lieu of 24" culvert or smaller, provided that a minimum of 16" of backfill be placed over it and tamped in 8" lifts. The barrels should be welded and #4 rebar used as a strut to reinforce the weld otherwise the barrels will collapse at the joints.

DAVID A CORBETT
CPT, CE
Commanding