CASE STUDY

HYDRAULIC TRASH PUMPS FOR WASTEWATER APPLICATIONS

STANLEY

Meeting Heavy Duty Wasterwater Processing Demands with Hydarulic Trash Pumps

PROBLEM

Cushman Contracting Corporation was using a towable 4" self priming trash pump for the dewatering of water and grit slurry. This is stanard equipment for these types of due to the pumping capacity and ability to handle solids.

On the day the dewatering was scheduled the pump stopped working as it could not handle the high concentration of grit in the slurry. Therefore, Cushman was in desperate need of a high end trash pump.

SOLUTION

Luckily for Cushman, it scheduled a demo with Eric McCory, a local Product Support Specialist from Stanley Hydraulic Tools, for the following day. At the time Cushman was unaware of hydraulic trash pumps and their effectiveness. Eric ran the TP08 4" trash pump with the HP28 twin power unit. The TP08, despite it's handheld size, is capable of pumping 800 gpm and up to 4" solids.

RESULT

They ran the HP28 consistantly from 7:00am - 12:00pm with few breaks operation. In order to remove the grit the power unit was turned off to more water to the mixture, but otherwise ran for a majority of the 5 h period. The TP08 worked extremely well in the application! The slu mixture was pumped with ease and Cushman Contracting Corporatio Carpinteria Sanitary District were both very impressed with performance of hydraulics!.

Overview

Cushman Contracting Corporation & The Carpinteria Sanitary District in Carpinteria, CA were in need of a trash pump to dewater a half full 290,000 gallon tank that contained a mixture of water and grit.

They needed to pump the slurry to a conveyer belt which then pressed the last amount of water from the grit. The grit was then placed in a separate storage compartment for processing and later to be sold as fertilizer. The water storage tank is pumped once a year so the grit doesn't build up to a point where it cannot be removed.

Hydraulic Advantages

Simply put, hydraulics are the most efficient way to power a tool, as compressed oil transfers energy more efficiently than other methods. The closed system keeps the tool lubricated and ensures enhanced durability. If you've never considered hydraulics for your heavy duty applications maybe it's time to start.