

MEMO

From: F. Baneyx
Subject: Pump Characteristics

We have just received two surplus pumps from our Paper Products Division. Unfortunately, the manuals have been lost and we do not have any information on their operating characteristics. The pumps are quite different in size and appearance. One appears to be a positive displacement pump while the other seems to be a centrifugal pump. Our Ethanol Production Facility has a need to replace their scrub water feed pump and would be interested in using a suitable surplus pump for this job.

Please run tests on both pumps and prepare standard performance charts. Cover the widest possible flow range in each case and determine the head, capacity and power consumption. We are particularly interested in performance at the most efficient operating point, estimated errors, and propagation of error analysis.