Background

Key Energy has been experiencing several pump failures out in the field because of contamination. The customer is well aware that 80% of failures occur because of contamination but has never had the equipment out in the field to stop this from occurring. Each blender that is in the field has 15 pressure compensated piston pumps along with several servo valves. They also contain 3 pumps for their transmission and 2 more pumps for their lube circuit. They would like to monitor each pump from one location and have a signal sent to the cab when contamination is becoming a problem or can cause a problem. Each one of these pumps cost approximately $40,000 dollars to repair and in most cases when one fails there is going to be at least several others that go with it.

Currently we have presented a way to monitor all the pumps on the system from one location and record they data that the customer is interested in seeing.

The customer is set on adding the TCM's to his unit and is awaiting the go ahead from his boss. Overall this customer could be purchasing 80 units this year along with several other components that he is requesting

Customer	Key Energy
Type of Machinery	OEM for Oil Field Equipment
Reservoir Capacity	Different Sizes
Operating Fluid	ISO 32
Schroeder Product	TCM
Customer Problem	Customer has been experiencing several piston pump failures out in the field. Each pump cost approximately $40,000 for repair.