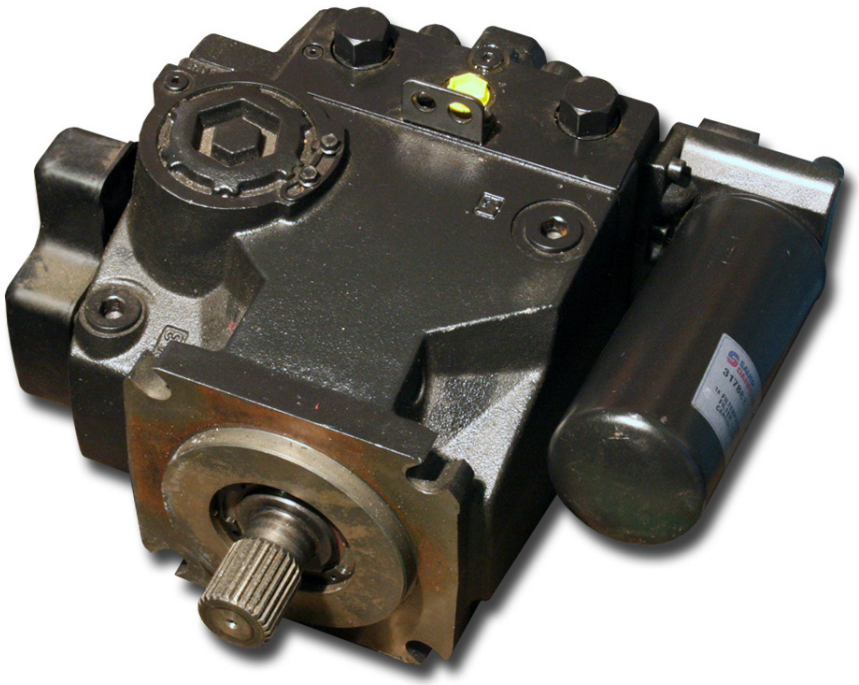
Customer case study

Test stand Instrumentation

G M Hydraulics

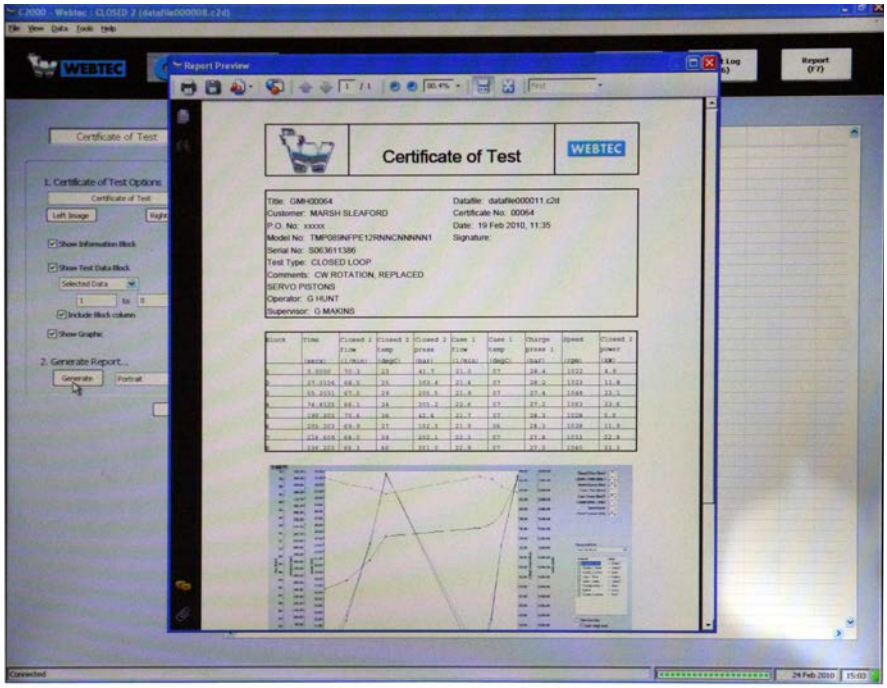
As a forward-thinking company which wanted to remain at the cutting edge of modern technology, East Anglia-based GM Hydraulics found itself at the end of 2008 in the market for an upgrade to its existing C1000 hydraulic data acquisition system. What the company needed was a system which was simple to operate, tailored to meets its specific input and which would provide the ultimate in professional reporting, so inspiring greater customer confidence and further promoting its already excellent reputation. Turning to its original supplier, the company found its perfect solution in the C2000 system, designed, developed and installed in March 2009 by Webtec Products Limited.

GM Hydraulics, which repairs and re-builds the large, high-pressure, hydraulic piston pumps found in agricultural machinery such as combine harvesters, as well as repairing and overhauling industrial machinery such as the hydraulic presses used in the injection moulding and printing businesses, required a testing system which would cope with 27 separate inputs. It needed to do everything from taking readings to producing a test certificate without any specialist computer knowledge and with only minimal training required for operators.



Having already been in development during 2008, the modular C2000 system particularly appealed to GM Hydraulics for a number of reasons. Not only was the Windows interface familiar and easy-to-use, but it allowed for data to be printed, e-mailed or accessed on other networked computers. The fact that it could effectively be bolted on to the company's existing test stand was another enormous benefit which allowed for a virtually 'plug and play' installation.

With the capacity to deal with a maximum of 64 inputs, the C2000 system can incorporate a variety of sensors and measurement equipment including flow meters, pressure transducers, temperature, speed and other types of sensor to meet individual customers' needs and so is suitable for anything from small independent companies to large test houses. As such, development of the pilot model for GM Hydraulics required little more than agreeing which sensors were required and what their layout screens would look like in order for a tailor-made piece of equipment to be produced within a matter of weeks.



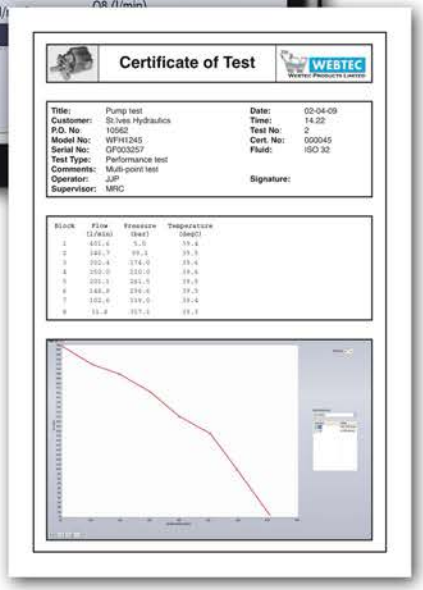
Aside from the technical specifications for the equipment, GM Hydraulics was also particularly conscious of presenting a highly professional image to its customers. As a service-based company which deals with high-value equipment parts, it was aware that the standard and quality of the testing equipment and the test certificate presented to the customer were the only criteria on which their existing and potential customers could measure their service.
They therefore wanted a piece of equipment which would not only provide first-class results, but would also look impressive within their new premises, and in both aspects the C2000 has certainly proved to meet their needs.

Because the test certificates produced by the C2000 cannot be manipulated, but are a true representation of the test carried out, GM Hydraulics and its customers have total assurance that any pump which is tested is in perfect working order when it leaves GM's premises. Not only does this mean no disputes concerning the test itself, but should a fault develop at a later date, the stored data can be recalled and the constancy of values checked, which greatly assists in the diagnostic process.

Having used the C2000 system for the past year, GM Hydraulics have been delighted with the performance of what represented a turnkey solution for their testing needs and are almost certain to turn to Webtec for their future needs. Since their system was commissioned in 2009, the C2000 has since been bought by companies as far afield as Saudi Arabia, Canada, France and China.

"...it is very easy to use."
Gavin Makins (MD)

Run oil through the pump and display real-time hydraulic values (Flow, pressure, temperature, speed plus custom analogue measurements)



Using your own test procedure you can display real time values and record test results on a keypress

Print the test certificate at the touch of a button, ready to send back to the customer with the pump.

GM Hydraulics
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Designed and produced by Webtec

Hydraulic measurement and control