

Case Study

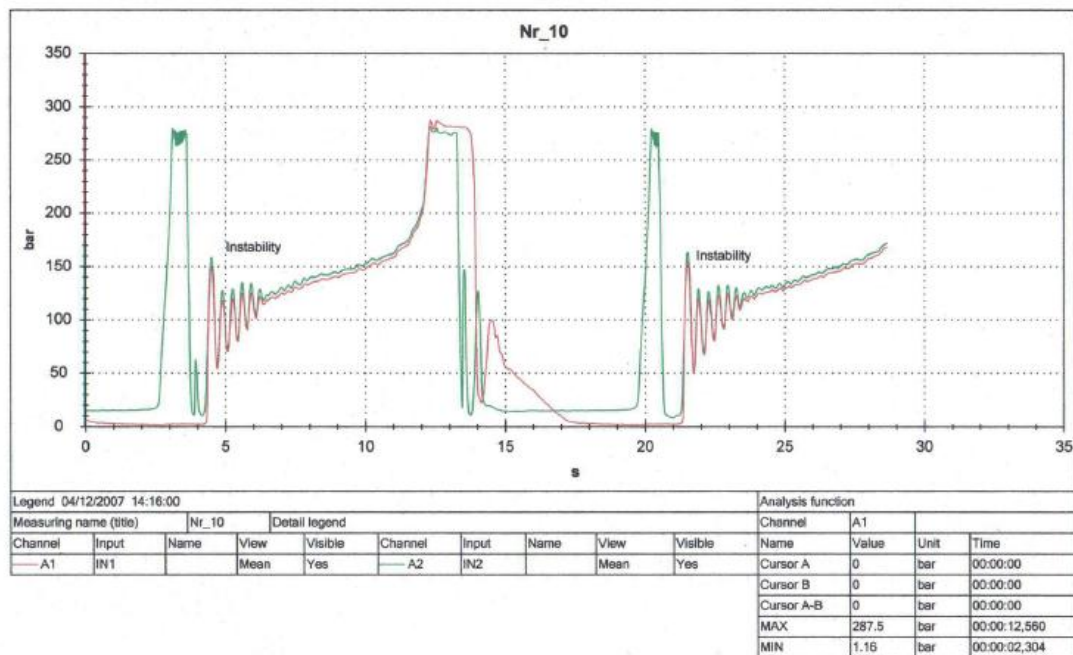
Hydraulic Data Logging

Customer Requirements

Our customer had oscillations on their excavator arm and MGR Fluid Power was called in to investigate. We have several data logging systems to measure pressure and flow. On this occasion we used the Parker Sensocontrol system

MGR Solution

We went to site and first looked at the operation of the excavator arm. We could visibly see the oscillation. Next we attached our pressure transducers to the annulus and full bore end of the cylinder and took some pressure traces, the results of which are shown below.



The instability can be clearly seen in the pressure traces, in the full bore and annulus of the cylinder. Our experience in data logging and interpretation of the results helped us identify the problem area. We identified that the counterbalance valve on the annulus was set too closely to the system pressure. By installing a higher ratio valve, the problem was solved.

Customer Benefits

- Data logging provides vital information on hydraulic system operation, the customer was able to see the problem manifest itself as pressure fluctuations.
- The exact cause of the problem was pinpointed quickly without disrupting the system.
- Costs of the repair was minimised by identifying the exact cause.
- Other hydraulic parameters were checked during the day to verify the machines operation.

If you think that you could benefit from our Hydraulic Data Logging and results interpretation service please call us on 01926 420847 or email: sales@mgrfluidpower.co.uk.