

Step 3

QUALITY ASSESSMENT

The screenshot displays the PQS RES software interface. On the left, there are three vertically stacked windows showing graphs of resistance over time and scatter plots of spot data. The main window in the center shows a 3D CAD model of a mechanical assembly with various components highlighted in different colors. Below the 3D model is a data table with columns for component IDs and numerical values. At the bottom, there are buttons for 'SysStat', 'iD/nID', 'Q mittel', and 'analyse'. The status bar at the bottom indicates 'localhost:root_pqs_br221' and 'Sonabend, 09.06.2007 15:15'.

Documentation of test results

Under "Enter test report" the mask for the documentation of test results opens. Here you find a list of all components marked as a test part.

Entering actual values ascertained

Here quality parameters ascertained (e.g. spot diameter, torque) are entered. In addition, further remarks (e.g. test force, type of breaking etc.) can be entered in the window "component information" and "spot information".

Test part analysis

The corresponding course of resistance in comparison to the total allocation of all weldings of the corresponding spot is displayed.

3. Quality assessment

Thanks to the targeted sampling by application of destructive tests the verifiability of the PQS inline monitoring is prepared. Measurements achieved can be directly stored in the PQS and allocated to each component part and each joint position. For this purpose, all process data monitored by PQS is permanently available.