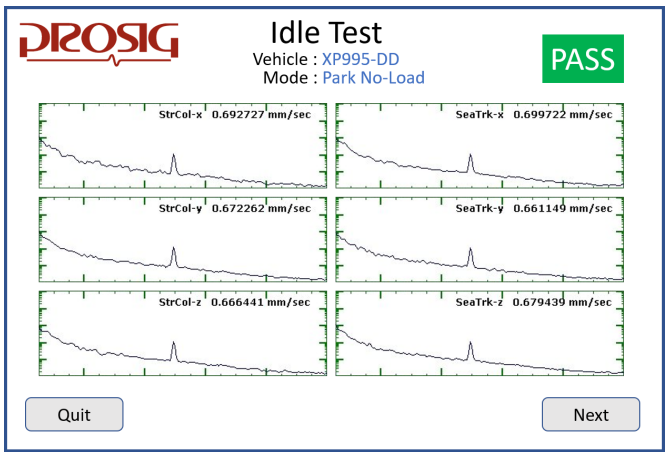
DATS Case Study

Whole Vehicle Testing

End of Line Automobile Testing

- **Reduces post-production faults by 25%**
- **Collects valuable production data**
- **Provides important quality measurement**
- **Automatic system operable by unskilled staff**
- **Objective, repeatable measurement, analysis and reports**





Prosig was chosen by a major automobile manufacturer in the US to develop an end-of-production-line testing tool to ensure that noise & vibration levels were within design limits.

There was a requirement to test all vehicles as they left the production line. This acts as a measurement of quality in the build process and mitigates against future customer complaints and warranty claims.

The tool needed to be easy to use. Production lines workers are highly skilled at manufacturing vehicles, but are unlikely to be proficient with instrumentation and sensors.

Using DATS meant that algorithms could be quickly prototyped and tested using the worksheet interface. The highly flexible and easy-to-use DATS script facility was then used to create the application complete with user input screens, instructions, pass/fail indications and final reports.

The tool fulfilled all of the criteria for the project

- It was easy-to-use for technicians working in the production plant
- Provided simple pass/fail criteria for QA purposes
- Captured valuable data for the design engineers
- Reduced remedial repair work and dealership warranty issues by ~25%



About Prosig

Prosig is a UK company specialising in the testing and monitoring of complex machinery, vehicles and structures in the advanced engineering, automotive, aerospace and industrial sectors. It offers a wide range of system capabilities, experience and innovation, with a particular focus on advanced vibration and acoustic monitoring and analysis techniques. Prosig is part of CMTG (Condition Monitoring Technology Group), an international group headquartered in the UK.

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