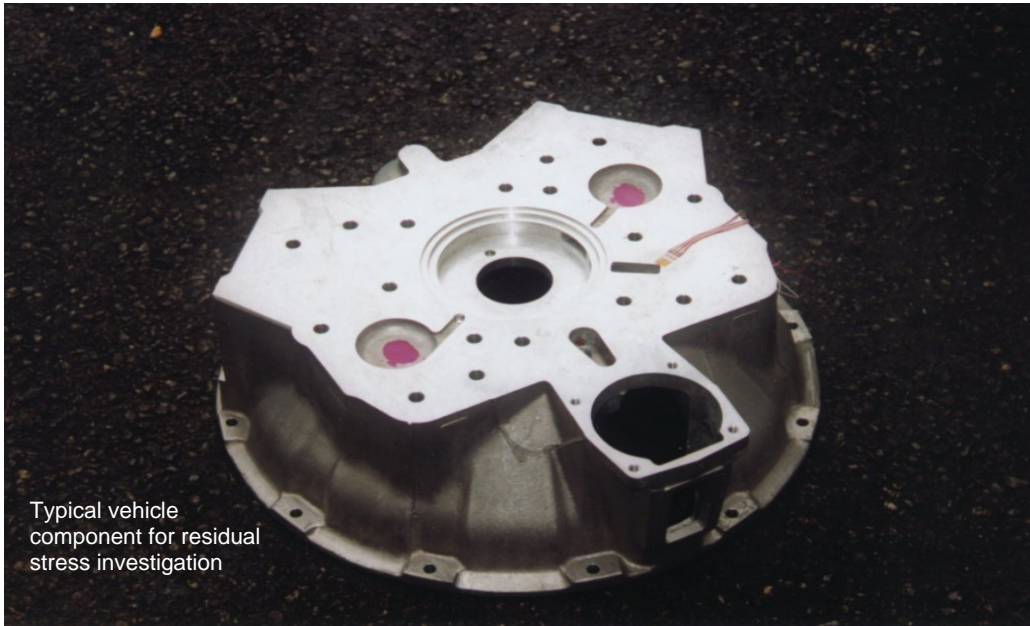


## Residual Stress Investigation



**Strainstall UK Ltd.** provides an installation, testing and analysis service to the manufacturers and designers of various components in the manufacturing industry. A variety of clients both in the UK and worldwide use the services of Strainstall to be able to investigate the residual and in-situ stresses in components or structures.



The residual stress determination services from Strainstall gives the client fast, accurate and reliable data to aid the understanding of residual and in-situ stresses due to, for instance, manufacturing processes or 'locked in' and dead load stresses in large structures.

The data to establish the residual or in-situ stresses at the point of measurement is achieved by installing a strain gauge rosette pattern of gauges and then drilling a small hole in precise incremental depths. The size and type of strain gauges and hole drilled is dependant upon the application and material being investigated. Post processing of the data is carried out using the proprietary SES residual stress program.

A report presents results in a summarised form with both tabular and graphical outputs of variation of residual stress with depth.

Strainstall's team of experienced engineers operate from offices in Cowes, Bath and Aberdeen (UK) and Tønsberg (Norway).



Instrumentation used:

- Straingauge rosettes
- High speed drill turbine
- Diamond coring rig
- SES proprietary residual stress determination program

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