

## Exhaust components durability development and prediction

### Situation and objective

- Ricardo has developed a set of analyses with the scope to simulate the real working condition of an exhaust system
- The methodology developed, applied on exhaust systems can be successfully used on many other applications where mechanical, thermal and vibrational loads feature in the normal working conditions of a component or system.

### Key benefits

- Significantly reduces failures during test and development, meaning reduced cost and development time
- Clear information to designers and manufacturers
- More efficient process and quicker validation time to mass production