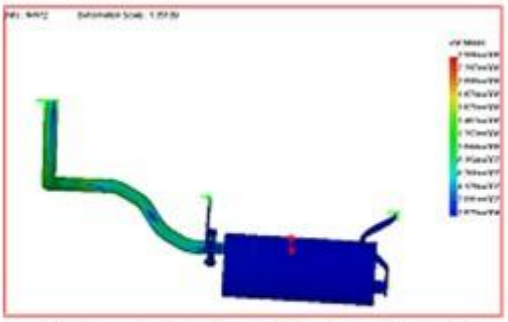
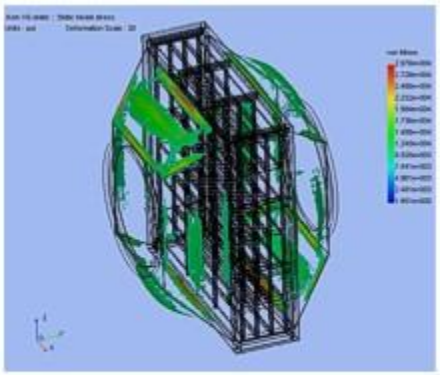
Finite Element Analysis

An important consideration for many off-road applications is the high levels of thermal and mechanical stress on a catalyst or muffler. DCL conducts vibration testing for many off-road applications and uses FEA to assess a new design for thermal and mechanical stress. This allows correct mounting procedures to be established and ensures the design will work without premature field failures.



FEA analysis of thermal and mechanical stress/strain problem on a catalytic muffler



FEA analysis of thermal and mechanical stress/strain problem on a catalyst housing