Actual and Calculated Shear Force vs Elongation, sorted by Pipe Grade and then cross sectional area.

- **Actual Shear Force**
- **Calculated Shear Force, Yield**
- **Calculated Shear Force, Ultimate**
- **Elongation %**

214 Total shears – 22.4% above shear value calculated using yield and 11.2% above shear value calculated using ultimate.

49 Actual shear above calculated shear using yield
24 Actual shear above calculated shear using ultimate

Shear Force (kips) vs Elongation %