

# 3.032 Mechanical Behavior of Materials

Fall 2007

Lead pipes installed 75 years ago.

Examples of creep failure

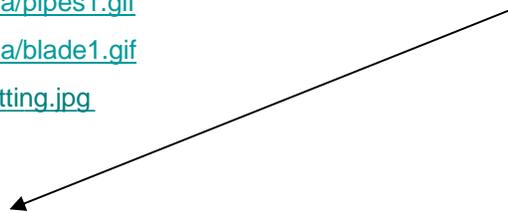
Images removed due to copyright restrictions.

Please see:

<http://www.rpi.edu/dept/materials/COURSES/NANO/nosedapipes1.gif>

<http://www.rpi.edu/dept/materials/COURSES/NANO/nosedablade1.gif>

<http://www.powerccl.co.uk/LP%20Turbine%20Blade%20Pitting.jpg>

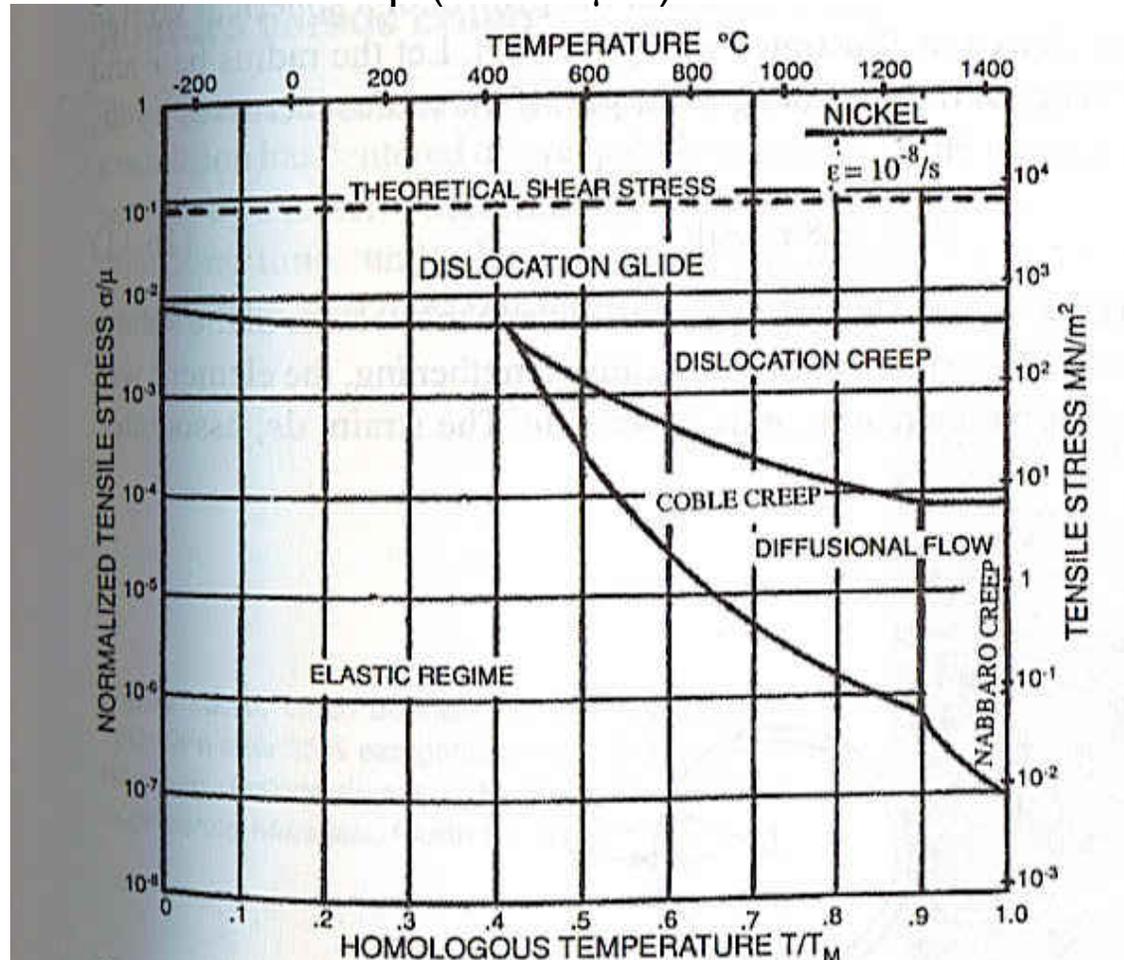


**Pratt & Whitney (1974) turbine  
blade failed due to creep.**

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Ni deformation mechanism map ( $d = 32 \mu\text{m}$ )



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