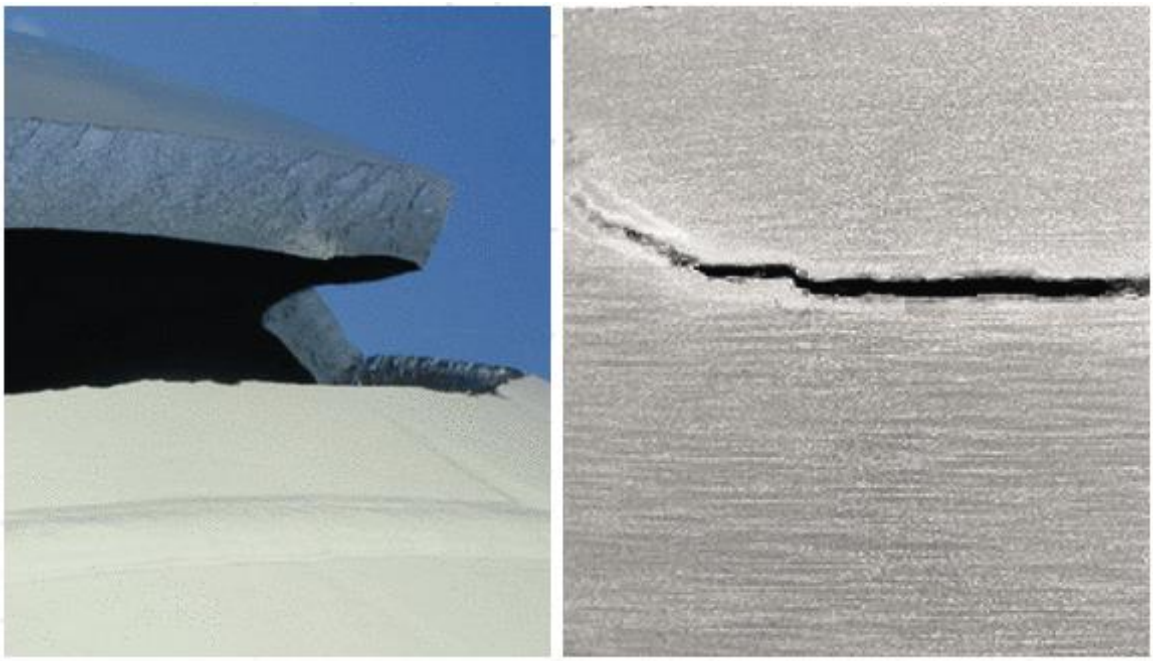
Hi. The following photos are free for any use as long as you quote the author.



Damage mechanism: Brittle Fracture. Damage mode: Failure mode: Rupture. CC Caroline Phoenix

Damage Mechanism: Sulfolane corrosion in a pipe reducer. Damage mode: general thinning. © **CEphoto, Uwe Aranas**

Corrosion and erosion at a steam nozzle **© CEphoto, Uwe Aranas**

Scaling and Cracking of a 12CrMo19-5 tube © CEphoto, Uwe Aranas

A float gauge of a separation vessel, destroyed by a Joukowsky Pressure Shock from an interconnected fluid pipeline. The pressure shock squeezed the symetric float gauge until it burst as consequence of the external overpressure **© CEphoto, Uwe Aranas**

Damage mechanism: Stress corrosion cracking, caused by tension in an unsuitable welded reinforcement collar. No failure present

36 bar steam pipeline of a soot blowing system, the pipe bend burst as a consequence of internal erosion. Material: 15 Mo 3 (steel) **© CEphoto, Uwe Aranas**

Damage mechanism: High-temperature sulfur corrosion of a 12 CrMo 19 5 pipe stub (used for insertion of a pressure indicator)

Fatigue fracture of a PI nozzle **© CEphoto, Uwe Aranas**

Different types of degradation of thermowells with considerable material loss due to erosion and corrosion attacks **© CEphoto, Uwe Aranas**

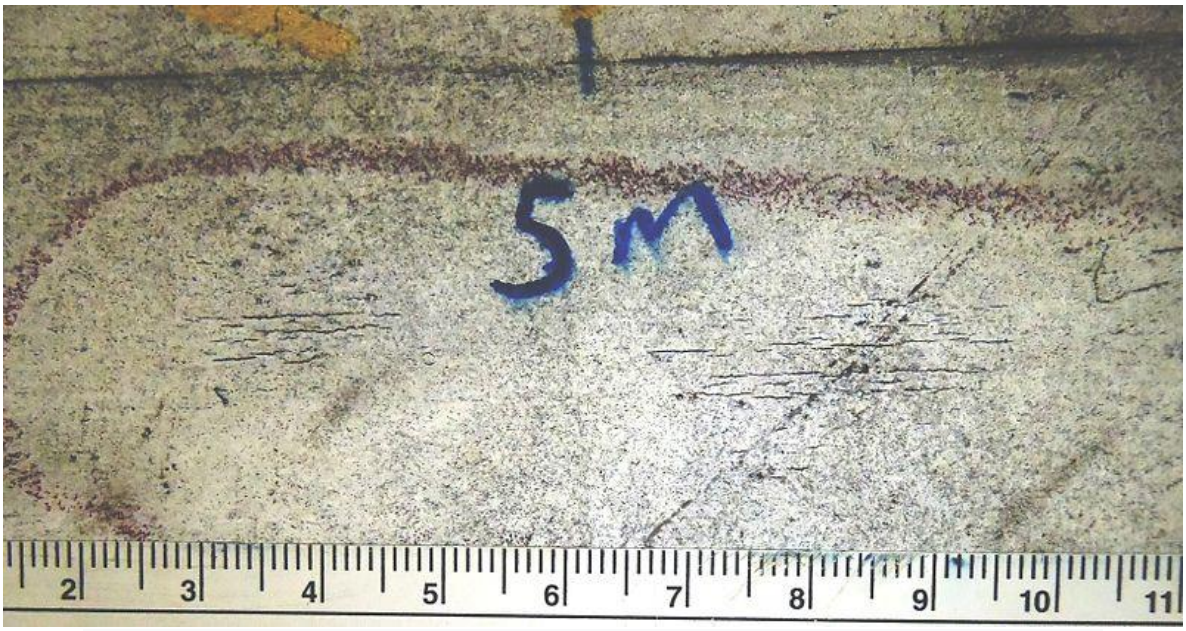
Damage Mechanism: Stress corrosion cracking of a quench pipe. Material: 1.4541 **© CEphoto, Uwe Aranas**

Damage Mechanism: Hydrogen Embrittlement, also known as Hydrogen Induced Cracking (HIC) © **CEphoto, Uwe Aranas**

Damage mechanism: Acid corrosion in a flue gas duct as a result of condensation of flue gas. The acid accumulated behind the chamotte layer and caused the depicted corrosion. This photo: gas side of the duct

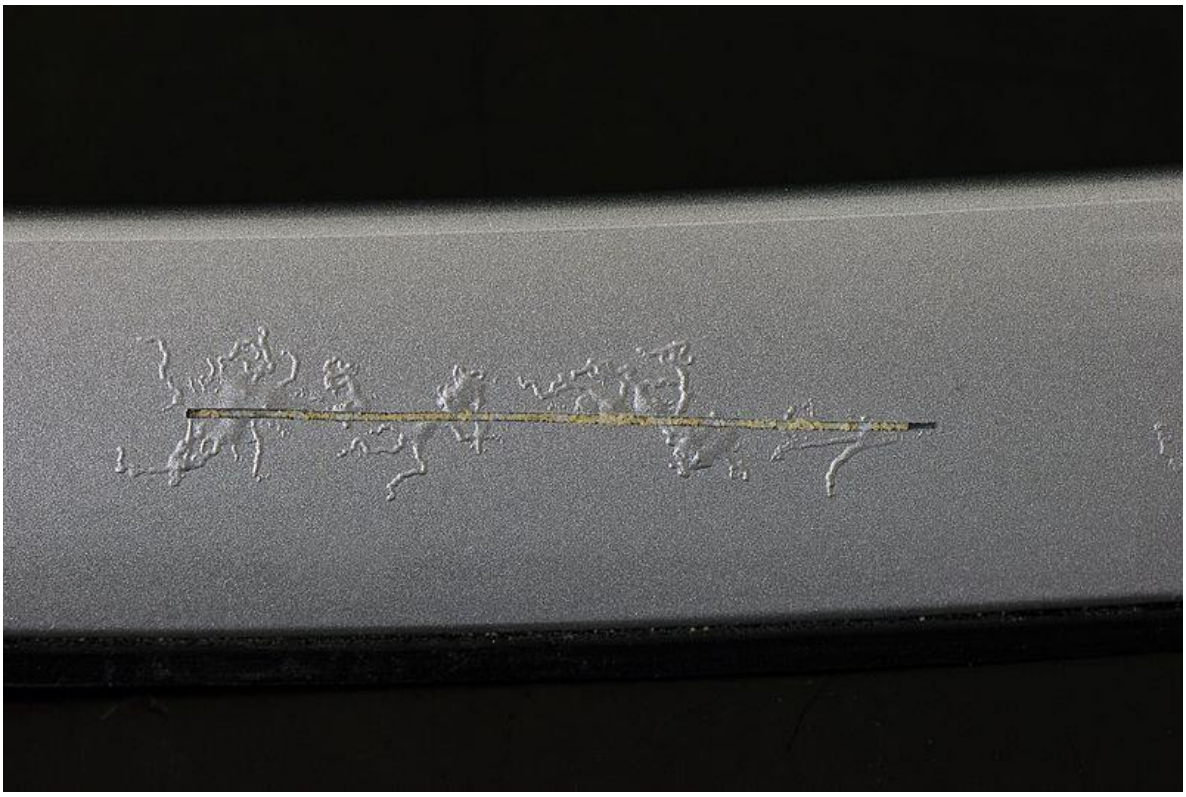
Damage mechanism: Acid corrosion in a flue gas duct as a result of condesation of flue gas. The acid accumulated behind the chamotte layer and caused the depicted corrosion. This photo: Atmosphere side of the duct

Damage mode: Pitting corrosion in a piece of aluminium. The holes caused by pitting which can be observed in this image are about 1 mm in diameter



A close-up view of the surface of a pipeline showing indications of DM stress corrosion cracking (two clusters of small black lines), as revealed by magnetic particle inspection (MPI). The surface was prepared with white contrast paint, and magnetic particles in a liquid suspension were sprayed onto the surface while it was magnetized. Cracks which would normally have been invisible are detectable due to the magnetic particles clustering at the crack openings. The scale at the bottom of the picture is in millimeters. Markings on the pipe were made by a technician for position reference.

Corrosión por exfoliación en una pieza de aluminio. La pieza mide unos 14 mm de ancho. La corrosión por exfoliación es un tipo de corrosión intergranular que avanza a lo largo de los planos de cristalización, lo que da lugar a la separación del material con un aspecto de capas. © **CEphoto, Carlos Delgado**



Filiform corrosion spreading from scribe on painted aluminum after complete accelerated corrosion testing (ACT version 2) CC by Matador

A tube damaged by DM caustic embrittlement. White caustic deposits can be seen inside. CC 1e4cMET

https://en.wikipedia.org/wiki/Caustic_embrittlement#/media/File:Boiler_scale_5.JPG