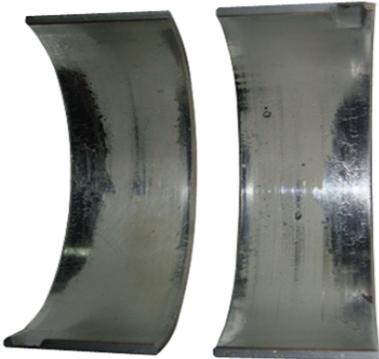


Bent or twisted connecting rod



Cavitation erosion of the overlay



Fatigue of overlay



Detonation or high torque at low rpm may cause distortion of the rods, which excessive localized wear near the bearing edge.

Cavitation bubbles form and collapse as a result of localized, sharp drops in oil pressure and flow.

This condition appears in the form of a network of thin cracks. Thinner overlays form thinner fatigue cracks.

Fatigue of copper based lining



Imperfect journal geometry



Metal-to-metal contact



Here the overlay flakes out from the copper lining, resulting in a breakdown of the oil film thickness.

This could result from using a worn stone when grinding a crankshaft, making the journal out of shape or with taper.

This condition may be due to oil starvation, misalignment, poor journal surface, or foreign particles embedded into the surface.