3.5.6 Cage fracture

Symptoms:
- Fracture of cage side edges (fig. 93), cross piece fracture more seldom

Causes:
- Mounting damage
- Kinematically permissible speed exceeded
- As a result of wear and due to poor lubrication (see section 3.5.1)
- Moment load too high or tilting of ball bearings (see section 3.5.4)
- In the case of tapered roller bearing pairs which have a large clearance, also when axial loads reverse quickly

Remedial measures:
- Mount carefully
- Filter lubricant
- Increase lubricant flow through and/or use different viscosity
- Avoid tilting as much as possible
- Operate bearing pair preloaded if possible

Extract From

Rolling Bearing Damage
Recognition of damage and bearing inspection
FAG Bearings Corporation