DR.PUMP
&ENGINEERING
CO.,LTD

When the pump fails!

BEARING FAILURE SYMPTOMS

4c66 Scuff marks

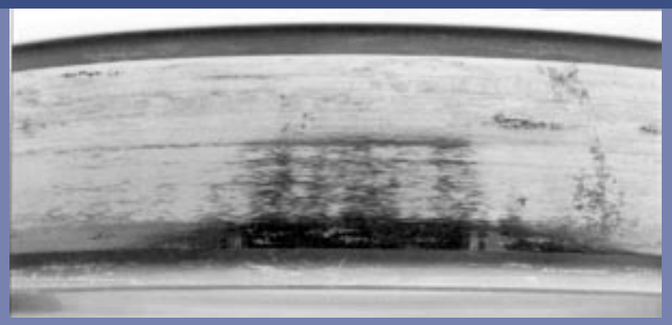
Scuff marks or sliding abrasion

Characteristics:
Cold welds on the mating surfaces (inner ring bore, outer ring shell) and axial contact surfaces or even mirror-like contact surfaces with good surface roughness. Wear of mating surfaces and end faces, possible reduction of pretension or increase in play.

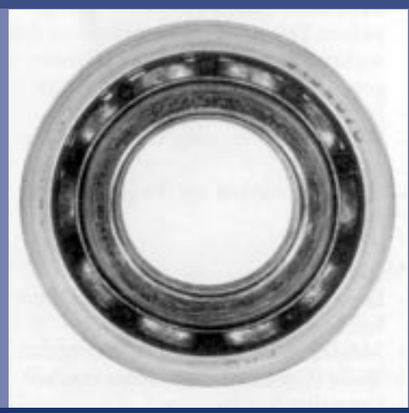
Causes:
– Rotary movements between ring and shaft/housing with loose fit under rotating load, even with static loading while out of balance
– Axial fixing of rings insufficient
– Movable bearing slides stiffly

Remedy:
– Use as snug as possible bearing seat
– Increase axial contact surfaces
– Ensure axial fixing
– Keep mating surfaces dry
– Improve functionality of movable bearing

Scuff marks in the inner ring bore as a result of inner ring rotating on the shaft



Scuff marks on the shell as a result of the outer ring rotating in the housing



Continuous scores and cold welds on the lateral face of the inner ring as a result of the inner ring turning on the shaft