



Problem, Cause, Remedy

PROBLEM		CAUSE	REMEDY
Noise	High pitched metallic noise	Poor lubrication	Improve lubrication
		Clearance too small	Correct clearance
		Poor fitting	Investigate mounting method and seating
		Excessive load	Examine shaft and housing tolerances for closing effect
	Low pitched metallic noise	Brinelled raceway surface	Avoid shock loads
	Regular noise	Rust and damage	Check and replace seals and relubricate
		Flaking of raceway surface	Improve lubrication and check fitting, clearance and fixing method
	Irregular noise	Ingress of foreign matter	Check and replace seals and relubricate
		Excessive clearance	Correct clearance
		Damage and flaking of rolling element	Reduce loads and/or clearance
	Variable noise	Variable clearance due to temperature changes	Check fits taking housing material and temperature into consideration
		Damage to raceways	Improve lubrication and check fitting, clearance and fixing method
Heavy vibration	Flaking of raceway and rolling element	Improve lubrication and check fitting, clearance and fixing method	
	Ingress of foreign matter	Check and replace seals and relubricate	
	Excessive clearance	Correct clearance	
	Poor location	Ensure abutment face and fitting diameter are perpendicular	
Excessive heat generation	Clearance too small	Correct clearance	
	Poor location	Ensure abutment face and fitting diameter are perpendicular	
	Excessive load	Examine shaft and housing tolerances for closing effect	
	Poor lubrication	Improve lubrication	
	Creep	Maintain recommended shaft and housing fits	
Lubrication failure	Too much grease	Use correct lubricant quantity	
	Ingress of foreign matter	Check and replace seals and relubricate	