12 tips to help diagnose problems

Problem	Cause	Remedy
1 Cutting edge build up	low cutting speed excessive honing of cutting lip bright finish cutting lip	 increase cutting speed reduce cutting lip honing have tool coated
2 Crumbling of outer corners	non rigid conditions, insufficient workpiece clamping deviation from concentricity too large interrupted cut	 rigid clamping of workpiece check and correct concentricity if possible reduce feed
3 Heavy wear at flank	cutting speed too high feed too low clearance angle too small	 reduce cutting speed increase feed increase clearance angle
4 Crumbling on cutting lips	 non rigid conditions, insufficient workpiece clamping interrupted cut max. wear values exceeded incorrect tool type 	 rigid clamping of workpiece reduce feed reduce tool change intervals apply suitable tool
5 Land wear	non rigid conditions, insufficient workpiece clamping deviation from concentricity too large back taper too small incorrect coolant (oil), coolant too weak	 rigid clamping of workpiece check and correct concentricity if possible increase back taper increase strength of coolant or use neat oil
6 Scoring on tool body	non rigid conditions, insufficient workpiece clamping deviation from concentricity too large interrupted cut abrasive workpiece material	 rigid clamping of workpiece check and correct concentricity if possible reduce feed increase strength of coolant or use neat oil