

INSPECTION CHECKLIST | PDC REAMER SERIES

PDC REAMER INSPECTION CHECKLIST

Printable control form for receipt, pre-use, installation, operation and post-run inspection.

Project / Job:		Date:	
Reamer model:		Drawing no.:	
Rig / Equipment:		Inspector:	
Pilot bore / Target size:		Formation:	

A. RECEIPT AND IDENTITY

	Inspection	Result/Notes
■	Model designation matches the purchase order and approved job plan.	
■	Drawing number and revision status are confirmed.	
■	Nominal diameter and overall length match the approved drawing.	
■	Both connections are identified as specified; supplied drawings show 2-7/8 API REG BOX at both ends.	
■	Shipping damage, impact marks or corrosion are not present.	
■	Actual tool weight is known before any lifting operation; drawing weight fields are blank.	

B. PRE-USE CONDITION

	Inspection	Result/Notes
■	Body and weld areas are free from cracks, distortion, severe erosion and abnormal wear.	
■	All PDC cutters are present and free from unacceptable chipping, fracture, loss or movement.	
■	Gauge cutting elements and wear surfaces are within the approved condition limits.	
■	Nozzle quantity, diameter and front/back distribution match the approved drawing.	
■	Nozzles and internal fluid passages are clean and unobstructed.	
■	Both threaded connections, shoulders and thread protectors are clean and undamaged.	
■	Tool is free of loose components, debris and contamination.	

INSTALLATION AND RUN CONTROL

Record each result and quarantine the tool if acceptance criteria are not met.

C. INSTALLATION

Checklist	Acceptance Criteria	Result / Notes
■	Mating components and connection type are verified compatible.	
■	Approved thread compound is applied to clean threads.	
■	Connection is made up using the approved method and torque specification.	
■	Tool and drill string are aligned; no forced or cross-threaded engagement occurred.	
■	Circulation test confirms fluid delivery and no visible leakage.	
■	Handling equipment is removed and the work area is clear before operation.	

D. DURING OPERATION

Checklist	Acceptance Criteria	Result / Notes
■	Torque and pullback remain within the approved operating window.	
■	Fluid pressure and flow are stable for the approved fluid program.	
■	Cuttings returns are adequate and continuous.	
■	Vibration, noise and rate of progress remain normal.	
■	No sudden load, pressure or return changes occurred without investigation.	
■	Any stop event, abnormal condition or corrective action is documented.	

E. POST-RUN INSPECTION

Checklist	Acceptance Criteria	Result / Notes
■	Tool is cleaned before inspection.	
■	PDC cutters and gauge elements are inspected and wear is recorded.	
■	Nozzles and fluid passages are checked for blockage, washout or damage.	
■	Body, welds and connections are checked for cracking, distortion and erosion.	
■	Critical dimensions are measured where required by the maintenance plan.	
■	Threads are protected and the tool is secured for storage or transport.	

INSPECTION CHECKLIST | RELEASE RECORD

DISPOSITION AND APPROVAL

Complete this section after inspection.

FINAL STATUS	■ ACCEPT FOR SERVICE ■ REPAIR / REVIEW ■ QUARANTINE
REASON / FINDINGS	
CORRECTIVE ACTION	
INSPECTOR	
APPROVER	
DATE	

RELEASE RULE

Do not return the tool to service when identification, cutter condition, gauge condition, nozzle condition, body integrity, connection condition or project compatibility is uncertain. Escalate to engineering or the authorized product owner.