Industrial Brake Maintenance Checklist

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Inspection Details

Equipment ID / Name:	**Brake Model:**	**Location:**
Date of Inspection:	**Inspected By:**	**Supervisor Sign-Off:**

How to Use This Checklist

- **Task:** The specific inspection or maintenance action to be performed.
- **[ ]:** Check the box upon completion of the task.
- **Status:** Mark the condition of the component.
  - **OK:** Component is within service limits and functioning correctly.
  - **NA:** Not applicable for this specific brake model.
  - **AT:** Needs Attention. Component requires repair, adjustment, or replacement. Describe the issue in the Notes column.
- **Notes:** Record specific measurements, observations, or required actions.

Quarterly Inspection Checklist (Every 3 Months)

Task	**Status (OK/NA/AT)**	**Notes**
1. Visual & Mechanical Inspection		
[ ] Inspect friction linings for oil/grease contamination.		
[ ] Measure lining thickness (Min Spec: __ mm).		Measurement: __ mm
[ ] Inspect brake disc/wheel for heavy scoring or cracks.		
[ ] Check all pivot pins and retaining clips are secure.		
[ ] Check mounting bolts and fasteners for tightness.		
[ ] Inspect springs for cracks or signs of fatigue.		

Task	Status (OK/NA/AT)	Notes
[ ] Lubricate all specified pivot points and linkages.		
2. Actuator & System Inspection		
[ ] **(Hydraulic)** Check thruster/actuator fluid level.		
[ ] **(Hydraulic/Pneumatic)** Inspect hoses & fittings for leaks.		
3. Functional Test		
[ ] Observe brake engagement (smooth, no hesitation).		
[ ] Observe brake release (smooth, full retraction, no drag).		
[ ] Listen for unusual noise (squealing, chattering, grinding).		

Annual Service Checklist (Includes All Quarterly Checks)

Task	Status (OK/NA/AT)	Notes
1. In-Depth Component Inspection		
[ ] Check pivot pins and bushings for excessive wear/ovality.		
[ ] Inspect brake frame/arms for cracks or deformation.		
[ ] Verify alignment of brake shoes/pads with disc/wheel.		
2. System Service & Reset		
[ ] **(Hydraulic)** Drain and replace hydraulic fluid.		Fluid Type Used: __
[ ] Verify main spring compression/torque setting.		Setting: _____
[ ] Reset air gap/stroke per manufacturer's manual.		Air Gap: __ mm

Task	Status (OK/NA/AT)	Notes
3. Electrical Inspection		
[ ] Inspect wiring and connections for damage or corrosion.		
[ ] Check limit switches (if equipped) for proper function.		

Summary & Required Actions

List any items marked as "AT" (Needs Attention) and outline the recommended corrective actions, required parts, or follow-up schedule.

1.
2.
3.
4.

This checklist is a general guide. Always consult your specific equipment and brake manufacturer's manuals for detailed procedures and specifications.