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	STANDARD: **OSHA 29 CFR 1926.602 & ISO 45001**	AUDIT FREQUENCY: **Daily Pre-Shift**

Heavy Equipment Pre Start Inspection Checklist

Operational Scope: Establishes a mandatory daily pre-operation inspection protocol for all heavy machinery operating on construction sites to mitigate catastrophic mechanical failures. Ensures full regulatory compliance and protects personnel through proactive hazard identification.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Boots (ASTM F2413), High-Visibility Safety Vest (Class 2), Safety Glasses (ANSI Z87.1), Heavy-Duty Leather Gloves
PREREQUISITES:	Machine parked on level ground with parking brake engaged and transmission in neutral. | Engine completely shut down and key removed from ignition during walk-around. | Energy sources isolated and warning tags verified if maintenance lockouts are active.

WALK-AROUND VISUAL & STRUCTURAL INSPECTION

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Structural Integrity & Chassis**	Inspect frame, boom, bucket, and attachments for cracks, excessive weld fatigue, structural deformation, or missing bolts.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
2	**Tires, Tracks, and Undercarriage**	Check pneumatic tires for proper inflation, sidewall cuts, and embedded debris; inspect track tension, shoe wear, and roller leakage.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
3	**Fluid Levels & Leak Check**	Inspect engine oil, hydraulic fluid, coolant, and fuel levels via dipsticks/sight glasses. Verify absence of pooling puddles or active leaks.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
4	**Safety Decals and Mirrors**	Verify all safety placards, load charts, and hazard warnings are legible and securely affixed. Clean all rearview and side mirrors.	**Standard**	**[ ] PASS [ ] FAIL [ ] N/A**

CABIN, SAFETY SYSTEMS & OPERATIONAL CONTROLS

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**ROPS / FOPS Structure & Seatbelt**	Inspect Roll-Over and Falling Object Protective Structures for damage. Verify seatbelt retracts smoothly and latch mechanism locks securely.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
6	**Fire Extinguisher & Emergency Gear**	Check fire extinguisher gauge is in the green zone, pin is intact, and inspection tag is current. Verify spill kit availability.	**Warning**	**[ ] PASS [ ] FAIL [ ] N/A**
7	**Horn, Backup Alarm & Lighting**	Test functionality of operational horn, automatic backup alarm, headlights, taillights, and rotating strobe/beacon lights.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**
8	**Brakes & Steering Controls**	Test service brakes, parking brake holding capacity, and steering responsiveness immediately upon engine start at low idle.	**Critical (Immediate Out of Service)**	**[ ] PASS [ ] FAIL [ ] N/A**

Certified Inspector / Lead Operator Signature: _____	**Date / Time:** _____	**Badge / Cert #:** _____
Site Safety Supervisor / Operations Manager Sign-off: _____	**Review Date:** _____	**Audit Status:** [ ] Approved [ ] Rectify

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