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

Heavy Equipment Pre Start Compliance Checklist

Operational Scope: This operational checklist mandates a rigorous pre-shift inspection for all heavy earthmoving and lifting machinery to mitigate mechanical failure hazards. Compliance is strictly required prior to engine ignition to ensure adherence to federal safety regulations.

MANDATORY PPE:	Hard Hat (ANSI Z89.1), Steel-Toe Boots (ASTM F2413), High-Visibility Class 3 Vest, ANSI Z87.1 Safety Glasses, Heavy-Duty Leather Work Gloves, Hearing Protection (NRR 25+)
PREREQUISITES:	Machine parked on stable, level ground with parking brake fully engaged. | Engine off, ignition locked out (if performing maintenance access checks), and attachment lowered completely to the ground. | Perimeter clear of unauthorized personnel within a 15-meter operating swing radius.

1. EXTERIOR WALKAROUND & STRUCTURAL INTEGRITY

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
1	**Hydraulic Hoses & Cylinders**	Inspect all lines and fittings for signs of active weeping, bulging, severe abrasion, or pinhole leaks.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
2	**Tracks, Tires & Undercarriage**	Check for proper track tension, missing grousers, severe sidewall cuts, or loose lug nuts on wheeled units.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
3	**Structural Welds & Chassis**	Scan boom, dipper, frame, and counterweight mounting points for stress fractures, rust bleeding, or missing structural bolts.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
4	**Attachment & Coupler System**	Verify bucket, forks, or blade pins are secure, safety retaining pins are intact, and quick-coupler lock is fully engaged.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A

2. FLUID LEVELS & ENGINE COMPARTMENT

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
5	**Engine Oil & Coolant Levels**	Dipstick indicates oil level between min/max marks; coolant recovery tank is properly filled with correct mixture.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
6	**Hydraulic Fluid Reservoir**	Sight glass shows hydraulic fluid at operating level when cylinders are retracted and machine is parked level.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
7	**Belts, Hoses & Clamps**	Check fan and alternator belts for proper tension, fraying, or cracking; verify all hose clamps are tight.	**Warning**	[ ] PASS [ ] FAIL [ ] N/A
8	**Battery & Electrical Terminals**	Ensure battery terminals are clean, tight, free of corrosion, and securely mounted in the battery compartment.	**Standard**	[ ] PASS [ ] FAIL [ ] N/A

3. CAB SAFETY, CONTROLS & OPERATIONAL TESTING

#	COMPONENT / ITEM	VERIFICATION CRITERIA & ACCEPTANCE STANDARD	SEVERITY	STATUS
9	**ROPS / FOPS Structure & Seatbelt**	Roll-Over Protective Structure is free of impact damage; seatbelt retracts smoothly and latches securely without fraying.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
10	**Emergency Alarms & Lighting**	Test backup alarm, horn, beacon lights, headlights, and work lights for full operational functionality.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
11	**Brakes & Steering Response**	Test service brakes, parking brake hold capacity, and steering responsiveness at low idle before entering production area.	**Critical (Immediate Out of Service)**	[ ] PASS [ ] FAIL [ ] N/A
12	**Fire Extinguisher & Emergency Kit**	Verify on-board ABC fire extinguisher is charged, pinned, and inspected within date; spill kit present.	**Standard**	[ ] 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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