



Heavy Equipment Inspection Checklist

Date: _____

Time: _____

Equipment Type: _____

Unit #: _____

Hour Meter: _____

Inspector: _____

Instructions: Check each item carefully. Mark ✓ for Pass, × for Fail, N/A if not applicable. Any failed items must be reported immediately and may require equipment to be tagged out of service.

Pre-Start Inspection (Engine Off)

Safety & Documentation

- Operator's manual present and readable
- All safety decals intact and legible
- Fire extinguisher secured and current (check date)
- Emergency stop buttons functional and accessible
- Previous inspection records reviewed

Hazard Assessment

- 360° walk-around completed - no obstacles
- Overhead hazards checked (power lines, structures)
- Ground conditions stable (no soft spots/holes)
- Adequate clearance for operation

Cab & Operator Station

- Seat adjusts properly and locks securely
- Seat belt: Insert buckle, listen for click, perform tug test
- All windows clean and crack-free
- Mirrors properly adjusted and secure
- Horn operational (test if appropriate)
- Controls move freely without binding
- Windshield wipers/washers functional
- Cab free of loose items/debris

Engine & Fluids

- Engine oil level correct (between min/max)
- Oil condition good (no metal particles/contamination)
- Hydraulic fluid level correct
- Hydraulic fluid clear (no foaming/discoloration)
- Coolant level correct
- Coolant concentration adequate (test if needed)
- Transmission fluid level and color normal
- Fuel level adequate (no water contamination)
- DEF/AdBlue level sufficient (if equipped)
- Battery terminals clean, connections tight
- No visible fluid leaks under equipment

Undercarriage & Ground Engagement

- Track tension correct (2-4" sag typical) OR
- Tire pressure correct (all tires)
- Track pads/shoes intact, no missing parts
- Sprocket teeth not excessively worn/sharp
- Idlers and rollers move freely
- Tire tread depth adequate (no cord showing)
- No sidewall damage or weather cracking
- Wheel nuts tight (torqued to spec)
- No excessive play in wheel bearings

Hydraulic System

- All hoses free from cuts, abrasions, bulging
- No hydraulic leaks at cylinders
- Cylinder rods smooth, no scoring
- All fittings tight and leak-free
- Hydraulic guards in place and secure

Attachments & Implements

- Cutting edges/teeth within wear limits
- All pins secure with keepers in place
- Quick coupler locks properly
- Attachment hydraulics connect without forcing
- No excessive play in attachment pins/bushings

Warm-Up Inspection (Engine Running - 5-10 min warmup)

Operational Checks

- Engine runs smoothly (no knocks/misses)
- Exhaust normal (no excessive smoke)
- Hydraulics operate smoothly (no irregular noises)
- All functions cycle properly
- Steering responsive (no excessive play)
- Service brakes engage properly
- Parking brake holds on grade
- No new leaks visible under pressure
- Air filter indicator normal (not restricted)

Warning Systems & Gauges

- All warning lights off after startup
- Gauges reading in normal ranges
- Backup alarm clearly audible
- All work lights operational
- Rotating beacon/strobe functional

Shutdown Inspection

Proper Shutdown Procedure

- Engine idled 3-5 minutes before shutdown
- All attachments lowered to ground
- Hydraulic pressure relieved (cycle controls)
- Equipment parked on level ground
- Parking brake engaged
- Key removed and equipment locked
- Fuel tank filled (if required)

Equipment Status

- PASS** - Equipment Safe for Operation
- SOFT DOWN** - Minor Issues
- HARD DOWN** - Do Not Operate

Inspection Notes & Issues Found:

Inspector Signature:

Date & Time:
