

Factory Direct Mini Excavator Inspection Checklist - Official Technical Overview & Datasheet

EXECUTIVE SUMMARY

Welcome to the forefront of compact excavation efficiency. Our factory-direct mini excavator inspection checklist is not merely a document; it is a comprehensive quality assurance and maintenance protocol engineered to ensure that every machine delivered meets the highest standards of structural integrity, safety, and operational readiness. Designed for the demanding environments of Construction, Mining, and Agriculture, this checklist serves as a critical tool for operators and site managers to conduct thorough walkaround inspections, thereby safeguarding against unexpected downtime and exorbitant repair costs .

This checklist embodies our commitment to delivering world-class, reliable equipment directly to your job site. By integrating proven OEM practices and rigorous inspection criteria, we empower your crew to maintain peak machine performance through daily, weekly, and scheduled preventive maintenance (PM) intervals, ensuring a superior return on investment and a safer worksite .



STRUCTURAL INTEGRITY & POWERTRAIN

The foundation of our mini excavator lineup is built on high-grade, heavy-duty steel chassis that provide exceptional rigidity and durability in the most arduous conditions. This robust construction is complemented by our advanced powertrain options, featuring renowned engines from industry leaders such as Cummins, Isuzu, and the latest Cat C-Series powerplants, which are compliant with stringent emission standards including U.S. EPA Tier 4 Final and EU Stage V .

Our hydraulic systems utilize state-of-the-art load-sensing technology with variable displacement piston pumps, ensuring that power is precisely directed where it is needed most. This sophisticated system optimizes fuel efficiency and delivers superior multifunction performance, providing the breakout force

required for heavy-duty digging and grading . To guarantee this performance, the inspection checklist mandates thorough checks for engine blow-by, fluid levels, and potential leaks in the hydraulic hoses and cylinders .

KEY FEATURES & OPERATOR COMFORT

- Load-Sensing Hydraulics: Engineered with variable displacement piston pumps to provide precise, on-demand hydraulic flow for superior efficiency and multifunction performance, reducing total ownership costs .
- Certified ROPS/FOPS Cab: The operator station is designed with Roll-Over Protective Structure (ROPS) and Falling Object Protective Structure (FOPS) certified to ISO 12117-2:2008, ensuring maximum operator safety in a comfortable, sealed environment with ergonomic controls and excellent visibility .
- Smart Control Panel: An intuitive, advanced monitor provides operators with real-time data on machine health, including engine status, hydraulic fluid temperature, and maintenance alerts, simplifying daily checks and diagnostics.
- Durable Undercarriage: The track frame and components are engineered for longevity, with a self-cleaning design to reduce wear. The inspection checklist includes critical checks for track tension, sprocket teeth, and rollers to manage maintenance costs, as the undercarriage accounts for up to 50% of lifetime maintenance expenses .
- Quick-Coupler & Attachment Security: A dedicated critical safety zone in our

checklist focuses on the quick-coupler and thumb attachments. This ensures the locking mechanism is fully engaged and secure, preventing potentially fatal incidents involving dropped loads .

COMPLIANCE & SAFETY STANDARDS

Our commitment to safety and quality is verified through rigorous compliance with international standards. Our mini excavators are built to meet and exceed global regulatory requirements, including:

- U.S. EPA Tier 4 Final / EU Stage V Emission Standards .
- ISO 9001 Quality Management Standards.
- CE Certification for the European market.
- ROPS to ISO 12117-2 and TOPS to ISO 12117 .
- Operator and Exterior Sound Pressure Level compliance with ISO 6396 and ISO 6395 .

Our factory-direct inspection checklist is designed to support these compliances, featuring mandatory checks for safety decals, backup alarms, and environmental systems .

TECHNICAL SPECIFICATIONS

The following parameters represent a standard configuration for a

high-performance mini excavator in the 3-5 ton class, featuring the technology and durability described above . Actual specifications may vary by model and configuration.

Parameter	Specification
Engine Model	Cat C3.3B (EPA Tier 4 Final)
Engine Power (Net)	69.5 hp
Operating Weight (Maximum)	23,002 lb (10,400 kg)
Hydraulic System Type	Load Sensing with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	62 gal/min (234.7 L/min)
Digging Force - Bucket	17,459 lb (79.3 kN)

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border: 1px solid #ddd;'>11,060 lb (50.3 kN)</td> </tr> </table>
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