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Preventive Maintenance (Weekly / 50h) (All Excavators)

Preventive Maintenance (Weekly / 50h) (All Excavators) interactive checklist is commentable and can export as PDF/Excel for proof. Streamline greasing, filters, cooling, undercarriage, battery, and fluids.

Project:
Date:
Filled by:

Lubrication

1	Grease boom, arm, and bucket pins using NLGI-2 lithium grease until clean purge; wipe excess; capture a photo at boom foot, arm base, and bucket links; record cartridge count and time.
2	Grease swing bearing race via all fittings; rotate upperstructure in 90° increments to distribute; accept uniform purge without grit; photo of purge points; log strokes per fitting.
3	Apply OEM gear grease to exposed slew ring gear with brush; thin, even coat across full circumference; photo of coverage; record product name and lot/batch number.
4	Lubricate quick coupler and auxiliary joints; cycle functions to seat grease; acceptance: fresh grease visible, no squeaks; short video or photo; operator sign-off captured.

Air Intake System

5	Read air filter restriction indicator; accept normal/green (<75% restriction); if red/yellow, service filters; take indicator photo; record hour meter and action taken.
6	Remove primary engine air filter; blow from clean side with dry air ≤ 700 kPa; reject oil-soaked or damaged elements; reinstall correctly; photo and part number recorded.
7	Inspect secondary/safety element; do not clean; replace if dirty or ≥ 12 months in service; photo date code; record new element lot and installer signature.
8	Inspect intake ducts and clamps for cracks, gaps, or debris; torque clamps per OEM; acceptance: airtight, seated joints; photo of any replaced parts.

Cooling System

9	Clean cooling pack (radiator, charge-air, hydraulic cooler) with low-pressure air/water ≤ 550 kPa from fan side out; fins straight; before/after photos attached.
10	Check coolant level at expansion tank when cool; top to MAX with 50/50 premix; record litres added and product; photo of sight mark.
11	Measure coolant freeze protection with refractometer; target -37 °C ± 2 °C ethylene glycol equivalent; record reading and ambient temperature; attach refractometer photo.
12	Inspect fan belts and tensioner; measure belt deflection 10–15 mm under 100 N; replace if cracked or glazed; photo and measurement noted.

Undercarriage	
13	Remove packed mud/aggregate with scraper and low-pressure washer; ensure rollers spin freely; capture before/after photos; dispose debris per approved project specifications and authority requirements.
14	Measure track sag at midpoint; target per OEM (typically 10–35 mm); adjust via grease valve; photo of tape/scale reading; note surface and temperature.
15	Inspect track shoe bolts; verify paint marks aligned; re-torque to OEM spec using calibrated torque wrench; apply new witness paint; log torque (N·m) and wrench serial.
16	Check carrier rollers, idlers, and seals for leaks or wobble; acceptance: no fresh oil after 10 min; photo; raise defect and tag-out if leaking.
17	Inspect sprocket teeth and track links; acceptance: less than 50% tooth profile loss, no severe hooking; photos; plan replacement if exceeded.

Fasteners & Structures	
18	Walkaround guards, handrails, steps, mirrors, boom/arm stops; tighten loose fasteners to OEM torque; photo of representative points; record torque values (N·m).
19	Inspect slew bearing bolts (accessible side); ensure no lifted washers or broken heads; re-torque in star pattern per OEM; photo of marks before/after; supervisor sign-off.
20	Check attachment and coupler latch; perform low-height lift/tilt test; acceptance: positive lock, no play; capture photo or short video; operator acknowledgment logged.

Electrical, Fluids & Documentation	
21	Clean battery terminals with baking soda solution; torque clamps per OEM; apply dielectric grease; measure system voltage 24.6–25.4 V resting; photo multimeter; record values.
22	Verify alternator output at 1 500 rpm: 27.0–28.5 V with major loads off; photo of reading; open defect if outside range.
23	Check engine oil level after ≥10 min shutdown on level ground; oil between MIN–MAX; top-up with OEM grade; record litres and oil batch number; photo dipstick.
24	Inspect hydraulic oil sight glass; acceptance: level within marks, oil clear amber, no foam/milkiness; photo; submit oil sample if abnormal.
25	Drain fuel-water separator until clear fuel appears; capture sample photo; dispose water responsibly; date-tag bowl; note volume drained.
26	Tidy cab and windows; remove debris under pedals; confirm extinguisher accessible and in-date; photograph cab condition; update digital log; obtain operator and mechanic digital signatures.

Comments:

Filled by:

Signature:

Introduction	How to use this checklist
<p>Preventive Maintenance (Weekly / 50h) (All Excavators) supports consistent service across brands and sizes with a single, practical workflow. This weekly excavator maintenance routine—often called a 50-hour service—focuses on greasing points, air intake checks, cooling pack cleaning, undercarriage cleaning, loose bolt verification, battery health, and basic fluid condition. By standardizing methods and evidence capture, the checklist prevents common failures such as overheating from clogged cores, dust ingestion through leaking ducts, track damage from improper tension, and electrical issues from corroded terminals. Acceptance cues and SI-based tolerances help operators and mechanics make fast, correct decisions on the job. The scope stops at light preventive tasks suited to field service; major repairs, diagnostics, and component overhauls must follow OEM manuals and be executed per approved project specifications and authority requirements. Use the interactive features to tick items, add comments, attach photos, and instantly export PDF/Excel with a secure QR link.</p>	<ol style="list-style-type: none"> 1. Preparation: Park on level ground, lower implements, apply park brake, and isolate if required. Gather PPE, grease gun, torque wrench, refractometer, multimeter, tape/scale, low-pressure air/water, spill kit, OEM specs, tags, and cleaning tools. 2. Access the checklist: Scan the machine QR code or open the app, select unit ID and hour meter, then start a new Weekly/50h PM session. 3. Work methodically: Follow item order by system. Tick each step, add condition notes, capture photos or short videos, and enter measurements (kPa, mm, V, °C, litres) where prompted. 4. Flag defects: If readings fall outside acceptance limits, add a comment with photos, select priority, assign to a maintainer, and apply a tag-out if safety-critical. 5. Complete evidence: Record products used (oil grade, lot numbers), torque values, and any adjustments made. Use witness paint where applicable and attach close-up photos. 6. Export and share: Generate an export as PDF/Excel including photos and comments. The export is QR-authenticated for verification and easy sharing with supervisors. 7. Sign-off and archive: Capture operator and mechanic digital signatures, distribute to stakeholders, and archive the record for audits and service history.