

Sanitized Sample Audit Report (Demonstration Template)

Issued by: SourceYK – Independent Quality Control & Supply Chain Management

Philosophy: Transparency First | Teardown is Truth

Part 1: Universal Inspection Protocols

1. Cover & Overview

Report Number: SYK-QC-SAMPLE-2026-001

Inspection Type: Pre-Shipment Inspection (PSI)

Inspection Location: Yongkang, Zhejiang, China

Applicable Standard: ISO 2859-1 / MIL-STD-105E

Inspection Level: General Inspection Level II

Final Verdict: PASS / FAIL

This sanitized sample audit report is provided to demonstrate SourceYK's inspection depth, methodology, and reporting transparency. All supplier-identifying information has been anonymized.

2. AQL 2.5 Sampling Plan (Normal Inspection)

Defect Classification Criteria

- **Critical Defect:** Safety hazard or regulatory violation. Zero tolerance.
- **Major Defect:** Functional, performance, or reliability failure.
- **Minor Defect:** Cosmetic or workmanship deviation without functional impact.

Sampling & Acceptance Table

Lot Quantity (pcs)	Sample Size (pcs)	Critical (AQL 0)	Major (AQL 2.5)	Minor (AQL 4.0)
2 – 15	All	0 Accept / 1 Reject	0 Accept / 1 Reject	0 Accept / 1 Reject
151 – 280	32	0 Accept / 1 Reject	1 Accept / 2 Reject	2 Accept / 3 Reject
501 – 1,200	80	0 Accept / 1 Reject	4 Accept / 5 Reject	6 Accept / 7 Reject
3,201 and above	200	0 Accept / 1 Reject	9 Accept / 10 Reject	13 Accept / 14 Reject

All defect counts exceeding the acceptance number result in automatic shipment rejection.

Part 2: Multi-Category Field Tests

The following case studies demonstrate SourceYK's cross-category technical inspection capability across high-risk and high-variation product groups common to Yongkang manufacturing. In addition to the examples below, SourceYK applies the same core inspection logic to Kitchenware & Drinkware, Industrial Equipment, and Outdoor & Hardware categories.

Case A: E-Mobility – Electric Bicycle (E-Bike)

Battery & BMS Safety Evaluation - Battery pack structural inspection and insulation clearance verification - Cell voltage consistency measurement across sampled units - Acceptance criterion: $\Delta V \leq \pm 0.05V$ - BMS protection validation: over-charge, over-discharge, and short-circuit response

Motor Noise (Sound Pressure Level) Test - Test condition: no-load, rated voltage - Measurement distance: 1 meter - Instrument: calibrated sound level meter - Acceptance criterion: $\leq 65 dB(A)$

Emergency Braking Distance Test - Initial speed: 25 km/h - Test surface: dry asphalt - Maximum allowable stopping distance: $\leq 4.0 m$

All test results are supported by time-stamped photographic and video evidence.

Case B: Garden Tools – Grass Cutter

No-Load RPM Measurement - Instrument: digital laser tachometer - Test condition: cold start, blade disengaged - Acceptance tolerance: $\pm 5\%$ of rated RPM

Cutting Vibration Test - Instrument: handheld vibration meter - Measurement point: main operator handle - Maximum allowable vibration: $\leq 5.0 m/s^2$

Fuel System Leakage Test - Static pressure condition, full tank - Observation duration: 15 minutes - Pass criteria: zero visible leakage at hose joints, carburetor, and fuel cap

Case C: Fitness & Rehabilitation – Massage Gun

Motor Stall Protection Test - Controlled shaft blockage applied during operation - Verification of automatic power cut-off or current limitation response

Percussion Depth Accuracy Test - Measurement of actual stroke length under rated load - Verification against declared percussion depth tolerance - Evaluation of depth consistency across sampled units

Continuous Operation Thermal Monitoring - Test duration: extended continuous runtime under rated load - Instrument: infrared thermal imaging camera - Monitoring of motor housing temperature rise curve - Evaluation against component thermal limits and safety margin

Part 3: SourceYK Competitive Advantage – Teardown Analysis

Inspection Depth Comparison

Inspection Aspect	Common Industry Practice	SourceYK Delivery Standard
Electronics (PCB Controller)	Visual check only; 1.0 mm FR-4 typical	Physical teardown and measurement; mandatory $\geq 1.6\text{ mm}$ flame-retardant PCB verified by digital caliper ($\pm 0.01\text{ mm}$)
Mechanical (Motor Winding)	Supplier self-declaration	Physical stripping of copper wire to verify purity, insulation class, and weight against BOM declaration

Measurement & Verification Tools - Digital calipers - Thickness gauges - Precision scales

[INSERT PHOTO: Macro shot of PCB thickness measurement via digital caliper]

[INSERT PHOTO: Motor winding purity and weight verification]

[INSERT PHOTO: Vacuum flask inner liner weld inspection – cross-section / salt spray test reference]

All teardown findings are photo-documented and archived as traceable inspection records.

Part 4: Defects & Corrective Action Plan (CAP)

Defect Case 1 – Major Defect

Description:

Visible porosity and inconsistent weld bead (“fish-scale” irregularity) observed on structural joint.

Root Cause Analysis (RCA): - Welding current parameters not properly calibrated - Operator inconsistency and insufficient SOP adherence

Corrective & Preventive Actions (CAP): - Re-calibration of welding current and voltage parameters - Mandatory re-training and secondary SOP assessment for welding operators - Enhanced in-process weld inspection for subsequent production lots

Defect Case 2 – Minor Defect

Description:

Color deviation observed on plastic housing under D65 standard light source, measured $\Delta E > 2.0$.

Root Cause Analysis (RCA): - Inconsistent masterbatch mixing ratio - Absence of approved color reference sample

Corrective & Preventive Actions (CAP): - Establishment of signed golden color sample - Implementation of batch color ΔE control limits - Incoming material color verification prior to production

Disclaimer

This report is a sanitized demonstration sample only. All supplier names, factory identifiers, and order-specific data have been anonymized. Actual inspection reports issued by SourceYK are customized based on product category, purchase order requirements, and buyer-specific standards.

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