

Unit / ID: _____

Hours: _____

Make / Model: _____

Inspector: _____

1. Electrical & Battery Systems

☐ **Terminal & Cable Cleanliness**

Inspect for white/green corrosion buildup. Ensure lead connectors are tight and free of thermal wear.

☐ **Battery Casing Integrity**

Check for cracks or side swelling caused by thermal stress or prior freeze exposure.

☐ **Cranking & Starter Response**

Listen for sluggish engine turnover on mild days—indicates imminent sub-zero failure.

☐ **Wiring Harness Inspection**

Examine aerial lift and forklift harnesses for exposed wires, brittle insulation, or bad grounds.

3. Fluids & Hydraulic Systems

☐ **Micro-Leak & Fitting Inspection**

Check cylinders, valve banks, and hose lines for weeping fluid that can burst under cold pressure.

☐ **Hydraulic Fluid Clarity**

Ensure fluid is clear. Milky/cloudy oil indicates water contamination, which freezes & locks valves.

☐ **Coolant/Antifreeze Concentration**

Use a refractometer to verify freeze protection levels down to at least -20°F.

☐ **Oil Viscosity & Fuel Treatment**

Verify winter fluid weights; treat diesel fuel for Kubota equipment to prevent paraffin gelling.

2. Tires, Tracks & Undercarriage

☐ **Tread Depth & Rubber Condition**

Inspect solid cushion and pneumatic tires for chunking/cracks that hold water and freeze.

☐ **Cold Pressure Calibration**

Check tire pressure when cold (tires lose -1 PSI per 10°F drop in ambient temperature).

☐ **Track Tension & Roller Integrity**

On compact machinery, clean out debris, verify tension, and grease rollers to prevent ice lockup.

4. Cab Climate & Safety Controls

☐ **Heater & Defroster Performance**

Run climate controls at full capacity to confirm airflow, temperature, and duct door operation.

☐ **Door & Window Weatherstripping**

Inspect rubber cab seals for dry rot, tears, or missing sections that allow freeze drafts inside.

☐ **Safety Lighting & Wipers**

Test strobes, work lights, horn, and wipers. Fill washer reservoir with anti-freeze fluid.

Need Help Winterizing Your Fleet?

Avoid winter downtime with New Tec's Planned Maintenance program.

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Inspection Result: () PASS () NEEDS SERVICE Supervisor Sign Off: _____ Date: _____