SITE survey. APP

SITE SURVEY REPORT

Tower Crane Inspection Checklist

Prepared for	Irwell Build Ltd (principal contractor)
Date	8 Oct 2026
Site	Ancoats Yard Block C, Manchester
Prepared by	K. Doherty

FORM

Tower Crane Inspection Checklist

1. Inspection details

Project	Ancoats Yard Block C, Manchester: tower crane TC1 daily check (completed example)
Site address	Ancoats Yard Block C, Pollard Street East, Manchester
Client or principal contractor	Irwell Build Ltd (principal contractor)
Location (GPS)	53.4831, -2.2219
Inspection date	8 Oct 2026
Inspected by	K. Doherty
Time of the inspection	07:05
Rules that apply	UK: LOLER 1998
Type of inspection	Daily check before use
Inspecting as	Crane operator
Crane supplier or owner	Pennine Tower Cranes Ltd (fictional)

This is an in-service inspection record. It is not a thorough examination (UK), an annual or post-erection inspection (US), or a load test. Check each item the way the crane manufacturer's manual describes. Wind, load and radius limits come from the crane's manual, load chart and the supplier, not from this form.

UK (LOLER 1998, regulation 9). A crane whose safety depends on how it is installed must be thoroughly examined after installation and after assembly at a new site, before it is used. In service it is thoroughly examined at least every 12 months (6 months for equipment that lifts people), or under an examination scheme, and after exceptional circumstances that could affect its safety. Inspections by a competent person in between, such as this one, are required where appropriate.

2. Crane and configuration

Crane number on site	TC1
Supplier's fleet or asset number	PTC-EXAMPLE-114
Make	Example Crane Co
Model	FT-160 flat top
Serial number	EXAMPLE-SN-1160
Type	Flat top or hammerhead (trolley jib)

Base	Fixed base on a foundation
Jib length as erected	55 m
Height under hook	48 m
Tie-ins to the structure	1
Climbing frame on the crane?	No
Maximum load from the load chart	8 t at up to 17 m radius
Load at the jib tip from the load chart	1.9 t at 55 m
Aviation obstacle lights fitted?	Yes
Date erected, climbed or last altered	2 Mar 2026
Date of the last thorough examination (UK) or annual inspection (US)	14 Jul 2026
Report reference	TE-EXAMPLE-0714
Days since then	86
Next thorough examination or annual inspection due (from the report)	13 Jan 2027
Report of the examination or inspection after erection on site?	Yes
Crane operator	K. Doherty
Operator's card or certification	Tower crane operator card TC-EXAMPLE-552
Appointed person or crane supervisor	M. Rourke (appointed person), J. Bell (crane supervisor)
Communication with the slinger or signaller	Radio channel 4, back-up channel 6

Photo of the crane



3. Structure, access and cab

Base and foundation	Acceptable
Mast sections, bolts and pins	Acceptable
Ties and tie-in collars to the structure	Acceptable
Slewing ring, turntable and slew motors	Acceptable
Jib sections, pins and walkways	Acceptable
Counter-jib, ballast and counterweights	Acceptable
Access ladders, rest platforms and guardrails	Acceptable
Cab: windows, seat, controls and heating	Acceptable
Electrical supply, cables and isolator	Acceptable
Lighting on the crane and at the base	Acceptable
Aviation obstacle lights	Acceptable
Hazards around the crane	Acceptable
Structure checks needing action	0
Not checked	0

4. Ropes, hook and block

Hoist rope	Acceptable
Trolley ropes	Acceptable

Rope terminations and wedge sockets	Acceptable
Sheaves and rope guides	Acceptable
Rope spooling on the drums	Acceptable
Hook, safety catch and swivel	Acceptable
Hook block and trolley	Acceptable

Photos: hook, ropes and any defect



Rope and hook checks needing action	0
Not checked	0

5. Safety devices, limits and brakes

Rated capacity indicator or load moment limiter	Pass
Hoist upper limit (anti two-block) and lower limit	Pass
Trolley in and out limits, and slow-down	Pass
Slew limits or zoning, if fitted	Pass
Radius and load display	Pass
Anemometer and wind display	Fail
What needs doing, or why not checked	Wind display in the cab blank after start-up and stays blank after a reset. The anemometer cups on the jib are turning, so the fault looks to be the display or its cable.
Hoist, slew and trolley or luffing brakes	Pass
Emergency stop in the cab	Pass

Controls return to neutral (deadman)	Pass
Free slew (weathervaning) device	Pass
Horn or warning signal	Pass
Radio check with the slinger or signaller	Pass

Photos: displays and any failed test



Tests failed	1
Not checked	0

6. Wind

Manufacturer's in-service wind limit	20
Wind speed now	7
Unit	m/s
Where the reading came from	Anemometer on another tower crane on this site
Time of the reading	07:20
Wind against the limit	Within the manufacturer limit

> The anemometer on this crane is not the source. Tell the appointed person and the crane supplier, and follow the supplier's instructions and the lifting plan on how wind is monitored until it is repaired.

How the crane is left out of service	Free slew on, hook raised to the top, trolley in, as the operator manual says.

7. Result and defects

Items failed or needing action	1

Items not checked	0
Result	Out of service: crane not to be used
How it was taken out of service, and who was told	No lifting started. Cab isolator off, out of service sign on the cab door and at the base. Told M. Rourke at 07:15 and the supplier's helpdesk at 07:25.
Crane supplier told about the defects?	Yes
Supplier's job or call reference	PTC call EXAMPLE-3381
Operator name	K. Doherty
Operator signature	

8. Actions and sign-off

Items needing action	1
Result	Action needed before the crane is used

Actions 1: Supplier's engineer to find and repair the fault on the TC1 wind display.

Action	Supplier's engineer to find and repair the fault on the TC1 wind display.
Priority	Urgent: do not use
Who will do it	Pennine Tower Cranes engineer (A. Shah)
Due by	8 Oct 2026
Status	Done, checked

Actions 2: Repeat the anemometer and wind display test after the repair and record it before lifting restarts.

Action	Repeat the anemometer and wind display test after the repair and record it before lifting restarts.
Priority	Before the next lift
Who will do it	K. Doherty
Due by	8 Oct 2026
Status	Done, checked
Actions still open	0

Decision	Repair, then repeat the affected checks
Date of the next inspection	9 Oct 2026
Summary	TC1 passed every check except the anemometer display, which was blank. Crane kept out of service; wind read from TC2 at 7 m/s. Engineer replaced the display cable at 11:40, display reading checked against TC2, lifting restarted at 12:10.
Appointed person or crane supervisor name	M. Rourke
Appointed person or crane supervisor signature	
Crane supplier's engineer name	A. Shah
Crane supplier's engineer signature	