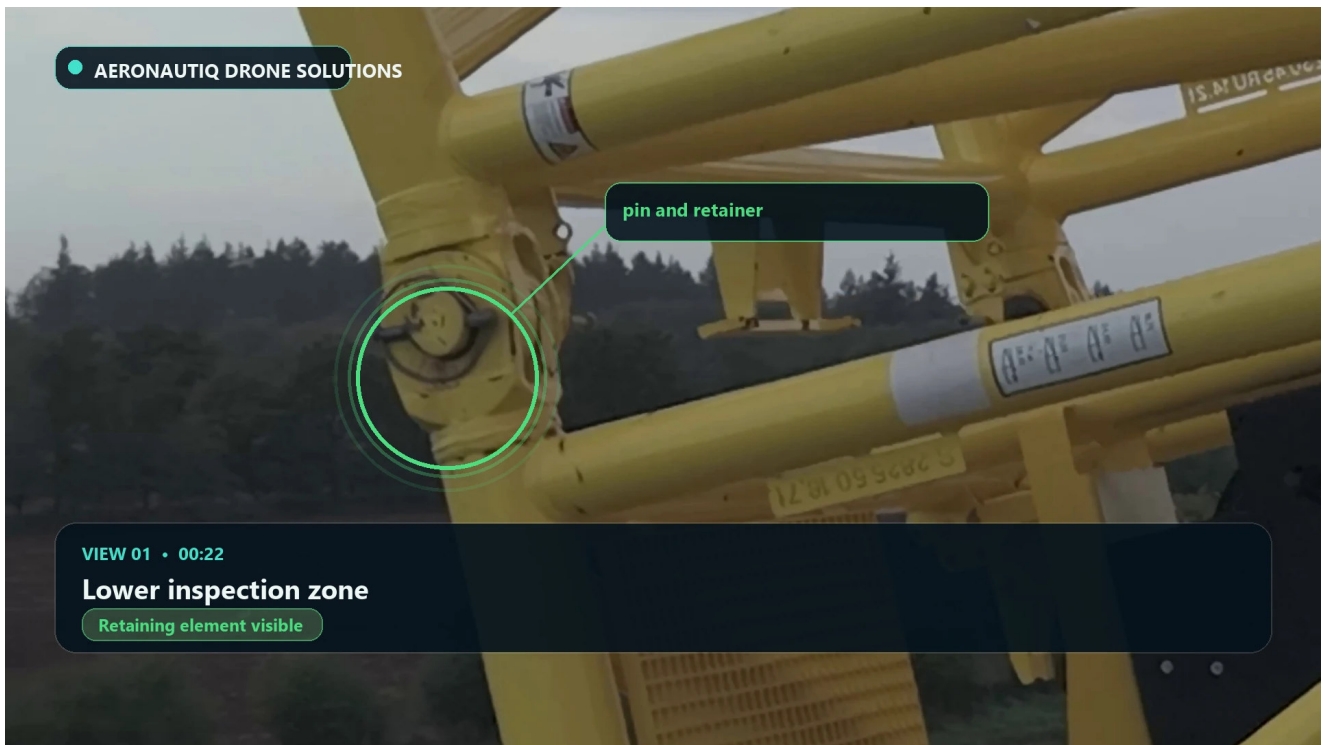


Visual check of left-hand crane boom pin retainers

8 October 2026 • English • public case study, client data removed



This report presents a real field inspection case. The supplied 4K footage was reviewed to determine whether visible pin ends on the left-hand crane boom show retaining elements. The sequence was assessed from the lower connections to the upper assembly.

No visibly missing pin retainer was identified within the assessed scope.

The upper assembly and concealed elements require an additional close-up or direct inspection.

1. Objective and scope

Area	Checked	Outside scope
Left-hand boom	Visible retaining element on the shown end of each pin	Right-hand side, concealed areas, material condition, clearance and compliance with manufacturer instructions

2. Method

The 3840 × 2160 px, 29.97 fps recording was reviewed as a time sequence. A representative frame was selected for each zone, the source timestamp was retained and the image was enlarged without exceeding the source resolution. Only features that could be clearly recognised were assessed.

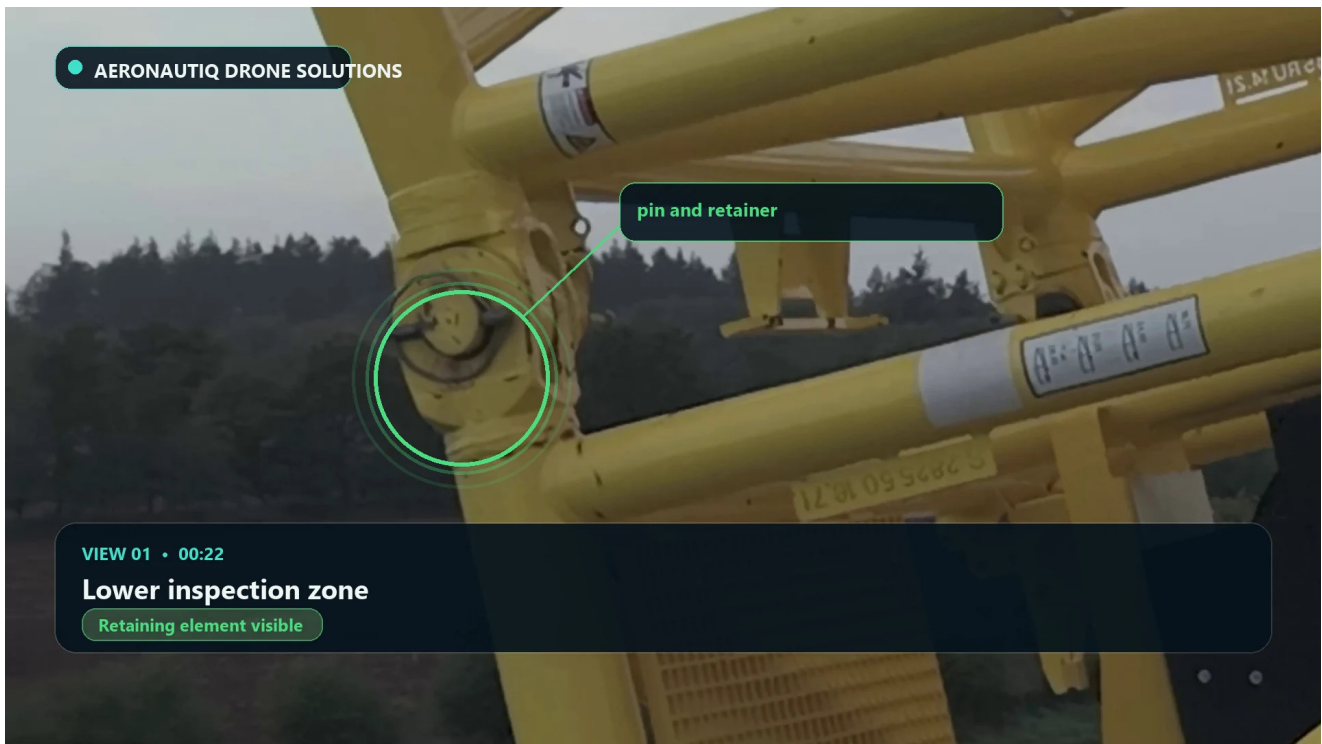
No visibly missing pin retainer was identified within the assessed scope. The upper assembly and concealed elements require an additional close-up or direct inspection.

3. Observation classification

Status	Meaning
Retaining element visible	The image allows a retaining element to be recognised on the shown side of the pin.
Partial view	Angle, distance or obstruction does not allow completeness of all elements in the zone to be confirmed.

4.01 Lower inspection zone

Source footage timestamp: 00:22



Retaining element visible

Observation

A retaining element can be recognised on the shown pin end.

Limitation

The assessment applies only to the view recorded in this frame. It does not confirm the opposite side of the connection or concealed elements.

4.02 Boom section connection

Source footage timestamp: 00:48



Retaining element visible

Observation

A retaining element can be recognised on the shown pin end.

Limitation

The assessment applies only to the view recorded in this frame. It does not confirm the opposite side of the connection or concealed elements.

4.03 Intermediate zone

Source footage timestamp: 01:12



Retaining element visible

Observation

A retaining element can be recognised on the shown pin end.

Limitation

The assessment applies only to the view recorded in this frame. It does not confirm the opposite side of the connection or concealed elements.

4.04 Yellow/green section transition

Source footage timestamp: 01:22



Retaining element visible

Observation

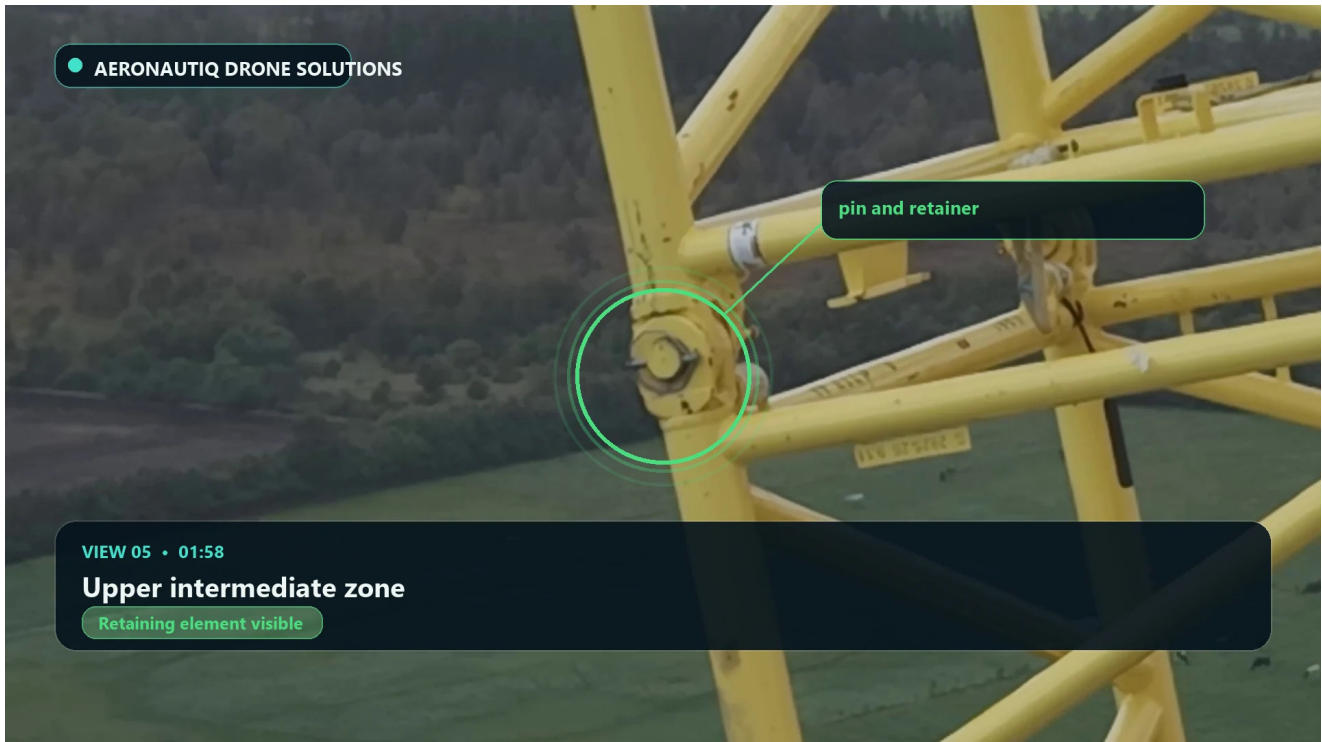
A retaining element can be recognised on the shown pin end.

Limitation

The assessment applies only to the view recorded in this frame. It does not confirm the opposite side of the connection or concealed elements.

4.05 Upper intermediate zone

Source footage timestamp: 01:58



Retaining element visible

Observation

A retaining element can be recognised on the shown pin end.

Limitation

The assessment applies only to the view recorded in this frame. It does not confirm the opposite side of the connection or concealed elements.

4.06 Upper yellow section connection

Source footage timestamp: 02:10



Retaining element visible

Observation

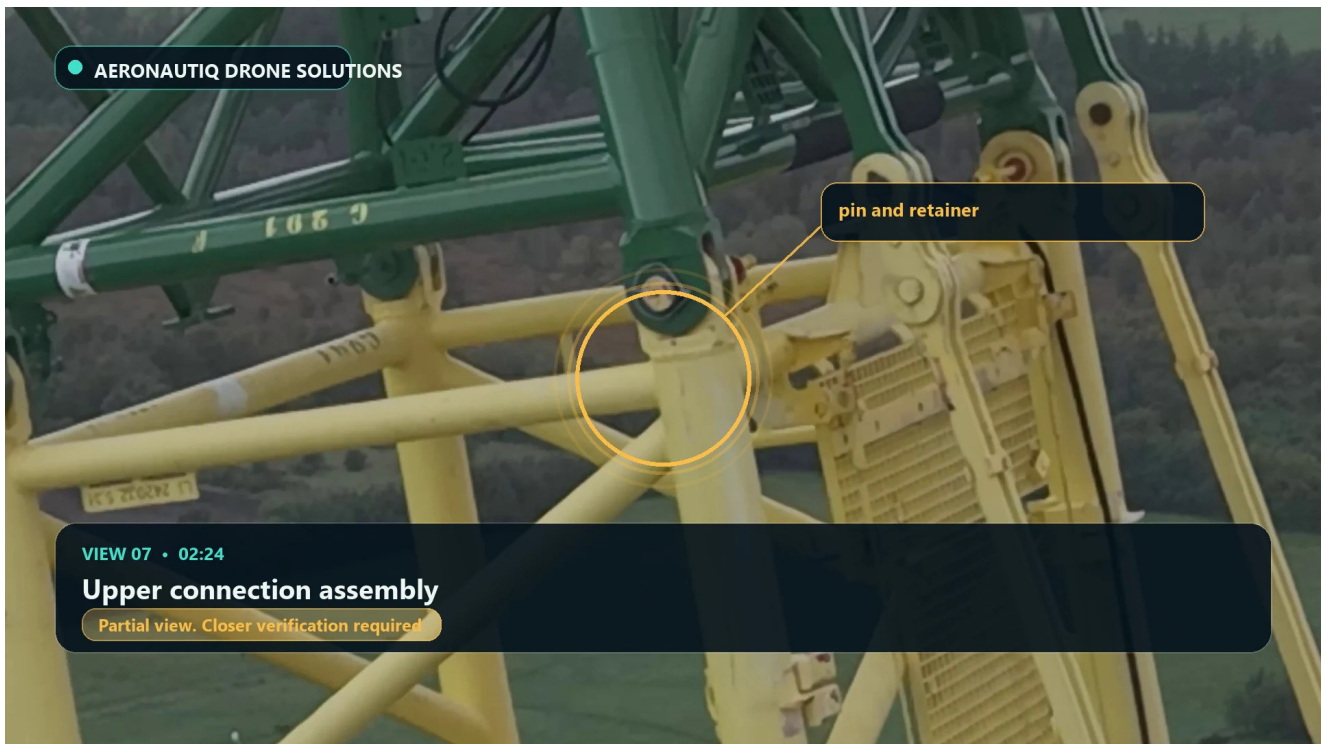
A retaining element can be recognised on the shown pin end.

Limitation

The assessment applies only to the view recorded in this frame. It does not confirm the opposite side of the connection or concealed elements.

4.07 Upper connection assembly

Source footage timestamp: 02:24



Partial view. Additional close-up required

Observation

The upper connection is only partially visible. This frame does not support a conclusive assessment of every element in the assembly.

Limitation

The assessment applies only to the view recorded in this frame. It does not confirm the opposite side of the connection or concealed elements.

5. Observation register

The table organises the representative views used in this report. The number of views is not the number of all pins in the structure.

ID	Time	Zone	Status
01	00:22	Lower inspection zone	Retaining element visible
02	00:48	Boom section connection	Retaining element visible
03	01:12	Intermediate zone	Retaining element visible
04	01:22	Yellow/green section transition	Retaining element visible
05	01:58	Upper intermediate zone	Retaining element visible
06	02:10	Upper yellow section connection	Retaining element visible
07	02:24	Upper connection assembly	Partial view. Additional close-up required

6. Final conclusion

No clearly visible case of a missing retaining element was identified on a pin in the assessed material. Completeness of all pins in the full structure cannot be confirmed because some pin ends are concealed or shown from an insufficient angle.

Recommended action

Before closing the check, capture perpendicular close-ups of the pin ends in the upper assembly and concealed areas. If the result is to support a return-to-service decision, confirmation by a competent person is required in accordance with the crane manufacturer's documentation.

7. Limitations

The report does not assess cracks, deformation, corrosion, clearance, wear, installation compliance or the crane's fitness for safe operation. It is not a statutory inspection report, technical acceptance or certificate of conformity.

8. Source integrity

Source file	DJI_0108_1_1.mp4
Parameters	3840 × 2160 px, 29.97 fps, 159.69 s
SHA-256	F3CB6017DADBA25B42392AEAE3E8D57AC32160587D7819897502F66CAC62AC86

Prepared by Aeronautiq Drone Solutions

This public field case is based on real inspection material. Client data, location and equipment identifiers have been removed.

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