STATEWIDE ACCESS & EQUIPMENT SALES 10 YEAR INSPECTION REPORT

MODEL: JLG 450AJ II Knuckle Boom **SERIAL NO:** 0300144407 **REPORT NO:** TT21-018-002

MANUFACTURE DATE: 02/2011 **COMMISSION DATE:** 04/2011

HOURS: 173.2 + 2379 = 2555.2 hrs (new hour meter fitted)

CLIENT: Andrews Crane Hire Pty Ltd

INSPECTION CONDUCTED BY: K Hill

Statewide Access & Equipment Sales

1/ 2 Woodbine Court

Wantirna South Vic 3152

STATEWIDE ACCESS & EQUIPMENT SALES 10 YEAR INSPECTION ON JLG 450AJ II Knuckle Boom SN: 0300144407

REPORT PRESENTED 13/10/2021

This inspection has been conducted to the requirements presented in Australian Standard AS2550.10:2006. The 10year inspection program was conducted by Statewide Access & Equipment technicians and contractors trained and experienced in the repair and maintenance of MEWP.

Examination and review to the applicable requirements of the AS1418.10:2011 and AS2550.10:2006.

Contents

NEXT INSPECTION REQUIRED 13/10/2026

BEFORE THIS MACHINE IS RETURNED TO SERVICE

NOTE AS2550.10 Clause 6.4.4 Periodic Inspections

"The MEWP shall not be returned to service until all safety-related malfunctions and problems have been corrected."

A:

ACTIONS REQUIRED

The following items have been corrected in this inspection.

These items have been completed before the machine returned to service.

A Steer Cylinder - resealed

B Emergency down - repaired

C Oil leak under body repaired

B:

INSPECTIONS CHECKLISTS

The following checklists were assessed during this Major Inspection Program.

AS2550.10 Major Inspection Checklist

Item No.	Item	First Inspection	Final Inspection	Notes	Initial
		Satisfactory/non-satisfactory			
1	**GENERAL**				
1.1	Verification of serial number	S	S		KH
1.2	Completion of safety upgrades	-	-		KH
1.3	Modification to latest standard	-	-		KH
1.4	Manuals & Decals	NS	S		KH
1.5	Specification plates (including rated capacity, slope, wind)	S	S		KH
1.6	Logbooks	S	S		KH
2	**SAFETY ITEMS**				
2.1	Operating, installed & legible	NS	S		KH
2.1.1	General operating instructions	NS	S		KH
2.1.2	Emergency operating instructions	NS	S		KH
2.2	Emergency retrieval system operates correctly	NS	S		KH
2.3	Safety interlocks	S	S		KH
2.3.1	Stabilizer interlocks	-	-		KH

2.3.2	Boom interlocks	S	S		KH
2.3.3	Motion interlocks	S	S		KH
2.4	Hazard warnings	S	S		KH
3	**INDICATORS/ALARMS**				
3.1	Level indicators/alarms function correctly	S	S		KH
3.2	Load indicators/alarms function correctly	-	-		KH
3.3	Hour meter operational	S	S		KH
3.4	Motion alarms operate	S	S		KH
3.5	Other	US	S		KH

Australian Standard AS2550.10 Pre-Occupational Inspection

Component	**Visual Inspection**	**Functional Test**	**Initials**
Platform and base controls	√	√	KH
Emergency controls and retrieval system	√	√	KH
Visual and audible alarms	√	√	KH
Personal Protective Equipment	-	-	KH
Air, hydraulic and fuel system leaks	√	√	KH
Cables and wiring harness for security and damage	√	√	KH
Loose or missing parts	√	√	KH
Brakes	√	√	KH
Tyres, wheels	√	√	KH
Placards, decals, warnings, control markings and presence of operating manual	√	√	KH
Outriggers, stabilizers	-	-	KH
Guardrail system	-	-	KH
Entry gate/bar with self-closing and latching systems	√	√	KH
Control descent devices	√	√	KH
Slew brake function	√	√	KH
Safety switches and interlocks	√	√	KH
Structural defects or damage	√	√	KH
Correct operation of drive and speed functions	√	√	KH
Correct operation of speed-limiting functions (eg high speed prevented when elevated)	√	√	KH
Pre-operational inspection completed by Kelvin Hill			

1: SERVICE HISTORY

MODEL: JLG 450AJ II Knuckle Boom SERIAL NUMBER : 0300144407

The service history of the above machine was reviewed, using the available logbooks, maintenance records and operation history provided by the owner.

Note that the average MEWP is an approximation which considers the variety of applications, frequencies and handling the machines encounter in Australia. Statewide Access & Equipment Sales uses the information gained from service, inspections and repairs to identify the typical service life of an MEWP. However, it is singly a subjective classification to help identify the expected condition of this machine and the requirements for the 10 year inspection.

Comparison to average MEWP in operation in Australia

Frequency of use	Lower	Typical	Higher
Type of use	Milder	Typical	Harsher
Conditions	Milder	Typical	Harsher
Transport practices	Milder	Typical	Harsher

Machines that have experienced harsh usage will require inspections more frequently than the schedule provided in AS2550.10.

Previous owners – Statewide Access & Equipment Sales

The review of the service history, as presented to Statewide Access & Equipment Sales, indicates the following components require inspection: **Nil**

If the operating conditions remain similar to what has been presented as typical of this machine, then the following major inspection will be due in **5 years** from the inspection date.

2: SERVICE RECORDS

The service records of JLG 450AJ II Knuckle Boom, Serial No. 0300144407 have been presented for this 10 year inspection.

These records indicate the following maintenance is required for continuing safe operation:

NIL

3: RECURRING COMPONENT FAILURES

The review of the service history and service records indicate the repeated failures of the following components:

Nil

With the continuing failures of **NA** the Australian Standard AS2550.10 Clause 6.4.5 recommends a Professional Engineer conduct this assessment.

Therefore, the following third party reports were commissioned:

NA

4: CRITICAL & STRUCTURAL COMPONENTS INSPECTED

The critical components on this machine were inspected as shown in the table below. These components were identified by Statewide Access & Equipment Sales and the manufacturer as critical to the safe and correct function of the MEWP.

Critical Components	Visual Inspection/ Function Test/NDT	Corrective Action	Completed Date
Chassis – all welds	Visual/Function & NDT	NA	10/9/2021
Basket – all welds	Visual/Function & NDT	NA	10/9/2021
Steering Components	Visual/Function & NDT	NA	10/9/2021
Boom Sections	Visual/Function & NDT	NA	10/9/2021
Lifting & Tie Down components/welds	Visual/Function & NDT	NA	10/9/2021
Axle Mount Assembly welds	Visual/Function & NDT	NA	10/9/2021
Lift Cylinders	Visual/Function & NDT	NA	10/9/2021
Basket levelling cylinders	Visual/Function & NDT	NA	10/9/2021

5: EVIDENCE OF CORRISON AND ENVIRONMENTAL DEGRADATION

Throughout the inspection process there was a specific focus on identifying corrosion and environmental degradation. This can have a lasting impact on the security of the MEWP. Refer to these comments when conducting service and maintenance actions in the future. The following items were identified:

NIL

6: TOLERANCE CHECKING OF WEARING COMPONENTS

The table below lists the components typically associated with wear.

Where possible these were checked to the tolerance specification provided.

Where no tolerance specifications were provided, the technician is competent to identify acceptable wear.

Component	Tolerance Specification	Satisfactory/ Unsatisfactory	Initials
NIL			
Tolerance inspection completed by Kelvin Hill			Date: 10/9/21

Page 1 of 11

Report No.:	TT21-018-002
Test Date:	10 Sep 2021

NON-DESTRUCTIVE TEST REPORT

Client:	Statewide Access & Equipment Sales	**Plant Owner:**	N/A
Job Identification:	JLG 450AJ	**Inspection Address:**	1/2 Woodbine Court Wantirna South Vic 3152
TTIS Procedure No.:	As per Cr Inspection 01		
Job No.:	762		
Client Job No.:	N/A	**Order:**	Verbal (Kelvin)
Design/Construction Code:	Nil cracks	**Drawing No.:**	N/A
Material Type:	Carbon steel	**Surface Condition:**	Painted (<500 microns)
Comments/Restrictions:	Equipment fully operational at the time of inspection. 100% denotes where accessible.		

ITEM INSPECTED:

At the request of Mr Kelvin Hill of Statewide Access & Equipment Sales, on behalf of the client, Statewide Access & Equipment Sales, a Major Non-Destructive Testing and Inspection examination was carried out on the following device:

Make:	JLG (Refer photo 1)
Model:	450 AJ
Serial No.:	0300144407 (Refer photo 2)
D.O.M.:	02/11
Hours:	169 as indicated (Refer photo 3)
Kms:	N/A
Reg. No.:	N/A
Asset No.:	N/A

Nil linear deleterious discontinuities were detected at time of inspection.

TEST PERSONNEL: B. Knowles	
Signatory: B. Knowles	Sign:
Report Date: 10 Sep 2021	