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12 February 2021

Mr. Craig Membrey  
Mr. Alan Davis  
Membrey's Transport & Crane Hire Pty Ltd  
80 South Gippsland Highway  
Dandenong South VIC 3175

Dear Craig & Alan,

**Re: Engineers Report Hiab Truck Mounted Crane Unit 47 Model 550-6 S/N 550-314  
Manufactured 2002 and owned by Membrey's Transport & Crane Hire P/L**

**General**

This is a major inspection report on this unit.

This unit is mounted on Truck Chassis VIC Reg No ISN 9QS and is subject to inspection to AS 2550.11 requirements.

**Visual Inspection**

The unit was in an assembled condition at 80 South Gippsland Highway, Dandenong South VIC workshop and was accessible for inspection.

Visually the unit was in good condition and apart from a touchup / repaint to prevent corrosion to steel structure and carry out minor repairs as detailed and discussed.

The unit was functionally tested and found to have all safety items operating.

This unit has only had a very low number of operating hours during its working life ( - hours) and the unit has had one owner and been regularly serviced in accordance with manufacturers instructions and Australian Standards AS2550.

No new replacement parts and no minor repairs have been carried out during the life of the side loading crane.

Logbooks are carried on each machine and filled in by trained operators.



## **Non-Destructive Testing**

All high stress welds associated with structural components and main frame were checked and found to have minor unacceptable defects, which have been repaired & cleared. Refer separate Ultratest NDT report Nos: 15525 & 15525-1.

## **Testing**

The assembled truck crane unit was tested to AS 2550.11 requirements and found to be satisfactory.

## **Summary**

Based on the information provided in relation to the actual loads Vs Design loads and the actual loading frequencies Vs Design frequencies this crane when assessed to AS1418 criteria falls into the C3/M3/S3 category. The light and moderate load means fatigue aspects are minimal and the crane life can be safely extended for a further 5 years before reassessment by a competent person. During this period, it is expected that the truck crane will continue to be operated safely in accordance with AS2550 and manufacturers requirements and be routinely serviced by experienced personnel.

From the information provided on this crane the Australian Standard AS2550-1&11 Crane Safe use recommends that routine maintenance be carried out at 3 monthly intervals with an annual periodical inspection.

### **RECOMMENDED MAXIMUM PERIOD BETWEEN MAINTENANCE / INSPECTION SERVICES AS PER AS2550.1.2011**

Crane classifications	C1	C2	C3	C4	C5	C6	C7	C8
	M1	M2	M3	M4	M5	M6	M7	M8
Working hours per day	≥ 0.5	0.5-1	> 1-2	> 2-4	> 4-8	> 8-16	> 16	> 20
Routine maintenance service weeks	12	12	12	12	8	8	4	4
Periodic third-party inspection. weeks	52	52	52	52	52	52	52	52

NOTE: Period may be varied dependent on the operating environment, the frequency and intensity of use.

The above truck crane Unit is considered satisfactory for continued use to manufactures specifications and AS 2550 safe use until 2 / 2026 the next major inspection/assessment.

*Records going forward are to be continued to be maintained of all maintenance repairs and replacement parts to enable this information to be used and assessed in the next major inspection / assessment in 2026. AS2550.11 provides more details and guidance in relation to inspection periods and records required.*

Yours faithfully

D.C. Nicholls C.P. Eng

