



Test Date 30/09/2015
 AIS Job No. M15043
 Report No. 02
 Page No. 1 of 3

MECHANICAL TESTING REPORT

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Client	Park International	Request	Colin Clarke
Location of Test	Adelaide International Raceway, Port Wakefield Road, Virginia South Australia	Client PO No.	00008253
Job Description	Carry out Vehicle Impact Testing on supplied Guide Posts		

1.0 INTRODUCTION:

It was requested that Adelaide Inspection services provide Vehicle Impact Testing as per WA Main Roads Specification 602 and Queensland TMR MRS1114 on the supplied Park Post samples identified as Batch No. O156, manufactured Jul-Sept QTR.

2.0 PROCEDURE:

2.1 Vehicle Impact Test

The samples were conditioned for 24hrs at 21°C prior to driving into the ground at 1:30pm on 30/09/2015 using the client supplied driver. At the time of the test the ambient temperature in Virginia was 22°C as per the BOM website. The temperature was also measured using a calibrated thermometer (serial no 1079678, report no. A12457AA) which had a reading of 25.5°C (see figure 7). Three posts were installed using the supplied driver spaced at a distance greater than the length of the vehicle used (Holden Commodore). The guide posts were then subjected to 10 bumper bar impacts at a speed of 60km/h followed by 5 bumper bar impacts at a speed of 100km/h directed at 90 degrees to the front face of the guidepost. The permanent deflection was measured after 30mins from the last bumper impact at 100km/h. Video footage was recorded of the above testing and supplied to the client.

3.0 RESULTS:

The three posts from batch no. O156 conforms to the bumper impact test and permanent deflection requirements of the WA Main Roads Specification 602 and Queensland TMR MRS1114 Specification. See figures 1-6 for images of the posts before and after testing. Note there was damage sustained to the bonnet of the vehicle used after the bumper impact test.

PERMANENT DEFLECTION RESULTS

Sample No	Permanent Deflection (°)
Post 1	1.7
Post 2	1.8
Post 3	2.7

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Figure 1, Post 1 before testing



Figure 2, Post 1 after testing at 100km/h



Figure 3, Post 2 before testing



Figure 4, Post 2 after testing at 100km/h

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Figure 5, Post 3 before testing



Figure 6, Post 3 after testing at 100km/h

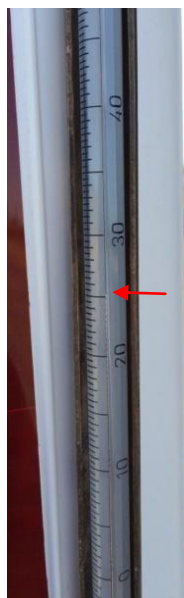


Figure 7, Thermometer showing test temperature

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