

**EQUIPMENT VERIFICATION PROCEDURE**

LIQUID LIMIT DEVICE  
AASHTO T 89

I. EQUIPMENT

A. Calipers, 250 mm minimum length, readable to 0.1 mm

II. PROCEDURE

- A. Verify the dimensions of the base to the nearest 1 mm.
- B. Verify the base is made of hard rubber, and the point of contact with the cup is not worn excessively.
- C. Verify the following dimensions of the cup assembly, and record the reading(s) to the following degree of accuracy:

DESCRIPTION	ACCURACY
Radius of Cup	1 mm
Thickness of Cup	0.1 mm
Depth of Cup	1 mm
Ht. to top of Installed Cup	0.1 mm

- D. Verify that the condition of the connecting pin is acceptable.
- E. Verify that the device is in good working order.
- F. Verify that the screws holding the cup in the hanger are tight.
- G. Verify that the lip of the cup is not excessively worn.
- H. Verify that the cup is not grooved from repeated usage.

NOTE: The definition of excessive wear is defined in Note 1 of the procedure.

I. Record DOTD Property Control No. of the device on the worksheet.

STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

VERIFICATION OF  
LIQUID LIMIT DEVICE  
Verification procedure used: DOTD A23

Verification Frequency: 12 months

Previous verification date:

Date of verification:

Next verification due:

Identification no.:

Mfg. /distributor:

Verified by:

Verification equipment used:

BASE	
Material Composition	Hard Rubber
Thickness	mm
Width	mm
Length	mm
All of the above dimensions are measured to the nearest 1 mm	

CUP ASSEMBLY				
Radius	Depth	Thickness	Cam to Base	
mm	mm	mm	mm	
Condition of pin		Good		Poor
Condition of cup lip		Good		Poor
Condition of groove closure area		Good		Poor
Working condition of device		Good		Poor

Diameter of wear spot	mm
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Recommended action: Repair \_\_\_\_\_ Replace \_\_\_\_\_ None \_\_\_\_\_

Comments: \_\_\_\_\_