|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DOTLOGO2 | | | | | | | **Calibration of Concrete Test Equipment**  **Metal Retainers & Neoprene Pads** | | | | | | | |
|  | | | | | | | | | | | | | | |
| Owner of Equipment: | | |  | | | | Manufactured By: | | |  | | | | |
|  | | | | | | | | | | | | | | |
| Model No.: | |  | | | Serial No.: |  | | | IDOT No.: | | |  | | |
|  | | | | | | | | | | | | | | |
| Inspection References: | | | | Illinois Modified AASHTO T 22 and ASTM C 1231 | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| Frequency: | | a. Every 3 months during use, or  b. When there is a question of calibration.  **Note:** A visual inspection shall be performed prior to first use each day, but does not need to be recorded. | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
|  | | | | | | | CalibrationsA | | | | | | | |
|  | | | | | | | # 1 | # 2 | # 3 | | # 4 | | # 5 | # 6 |
| Record date of inspection. (mm/dd/yy) | | | | | | |  |  |  | |  | |  |  |
| **METAL RETAINER** | | | | | | |  |  |  | |  | |  |  |
| Record inner wall height. (1.0 ± 0.1 in. (25 ± 3 mm)) | | | | | | |  |  |  | |  | |  |  |
| Record inside diameter. (102 – 107% of cylinder diameter) | | | | | | |  |  |  | |  | |  |  |
| Are bearing surfaces plane? (Y/N) (within 0.002 in. (0.05 mm)) | | | | | | |  |  |  | |  | |  |  |
| Is bearing surface free of gouges, grooves, or indentations greater than 0.010 in. (0.25 mm) deep? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Is bearing surface free of gouges, grooves, or indentations greater than 0.05 in.2 (32 mm2) in surface area? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Free of rust and other foreign material? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| **NEOPRENE PADS** | | | | | | |  |  |  | |  | |  |  |
| Record Shore “A” Durometer hardness. (typically 70, tolerance ±5. See Table 1, ASTM C 1231) | | | | | | |  |  |  | |  | |  |  |
| Record diameter. (not more than 1/16 in. (2 mm) smaller than inside diameter of retaining ring) | | | | | | |  |  |  | |  | |  |  |
| Record thickness. (1/2 ± 1/16 in. (13 ± 2 mm)) | | | | | | |  |  |  | |  | |  |  |
| Free of excessive wear; damage (e.g., compression set); cracks or splits >3/8 in. (10 mm) in length regardless of depth? (Y/N) | | | | | | |  |  |  | |  | |  |  |
| Is number of uses no more than 100? (Y/N) | | | | | | |  |  |  | |  | |  |  |
|  | | | | | | | | | | | | | | |
| Name of Inspector/Comments: (For BMPR\*: Supervisor shall initial each calibration following completion.) | | | | | | | | | | | | | | |
| # 1 |  | | | | | | | | | | | | | |
| # 2 |  | | | | | | | | | | | | | |
| # 3 |  | | | | | | | | | | | | | |
| # 4 |  | | | | | | | | | | | | | |
| # 5 |  | | | | | | | | | | | | | |
| # 6 |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| \*BMPR: IDOT Bureau of Materials and Physical Research | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| A A “No” answer or measured value outside of indicated tolerances requires the equipment to be repaired or replaced. For any discrepancy, the applicable inspection reference(s) indicated above shall have precedence over this calibration form. | | | | | | | | | | | | | | |