Proposal for Alignment procedure using RRC value among Technical Services

Background

The EC proposal contains the provisions as Annex 8 on technical services inter-laboratory comparison testing and machine alignment so as to minimize variances in the measurement results between technical services.

Basically Japan supports this idea, but
- The alignment procedures in the EC proposal is vague, and
- Current test procedures in ISO28580 does not specify to maintain the accuracy among each technical service test sites.

Japan proposal for Annex 8

To add Technical Services Alignment Procedure to obtain “RRC Standard Value” in the following slides.

① **Decide five Specific Alignment Tyres (Para. 3)**

1 2 3 4 5

② **Measurement of alignment tyres (using same batch tyre) at Technical Services (TSs):** A B C D E

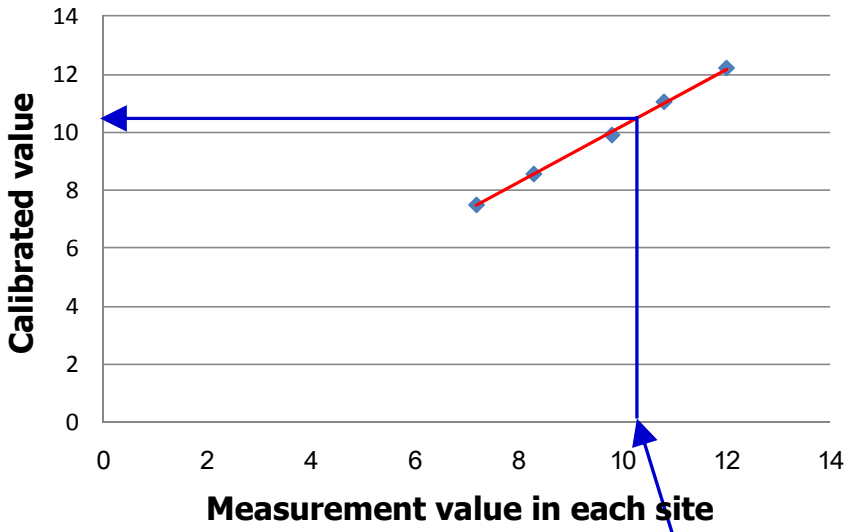
Technical Services	1	2	3	4	5
A	7.2	8.3	9.8	10.8	12.0
B	7.5	9.5	10.6	11.7	12.5
C	7.3	8.6	9.6	10.6	11.7
D	6.8	7.9	9.9	11.0	12.5
E	7.4	8.5	9.6	11.1	12.3
Average	7.5	8.6	9.9	11.0	12.2

Adopting average value as 'Standard Value'

③ Calibration Formula

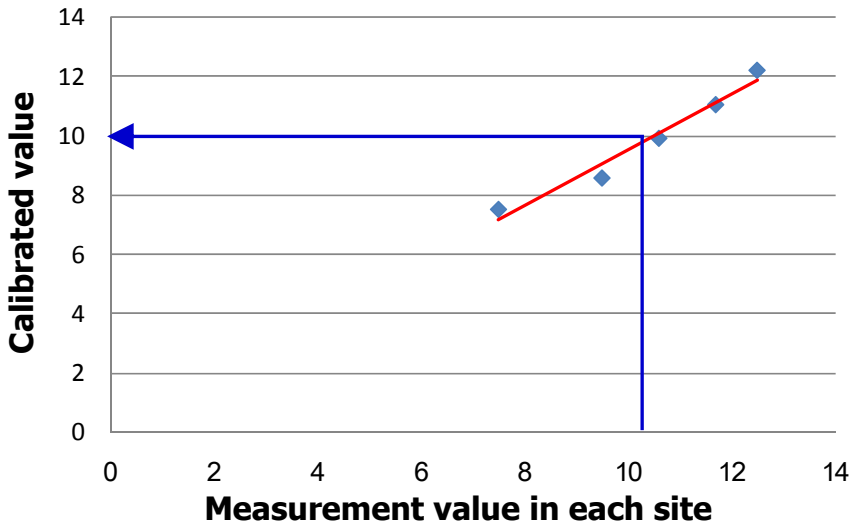
Transforming each site's measurement value to calibrated value by using the correlation line which is calculated from the standard values.

A



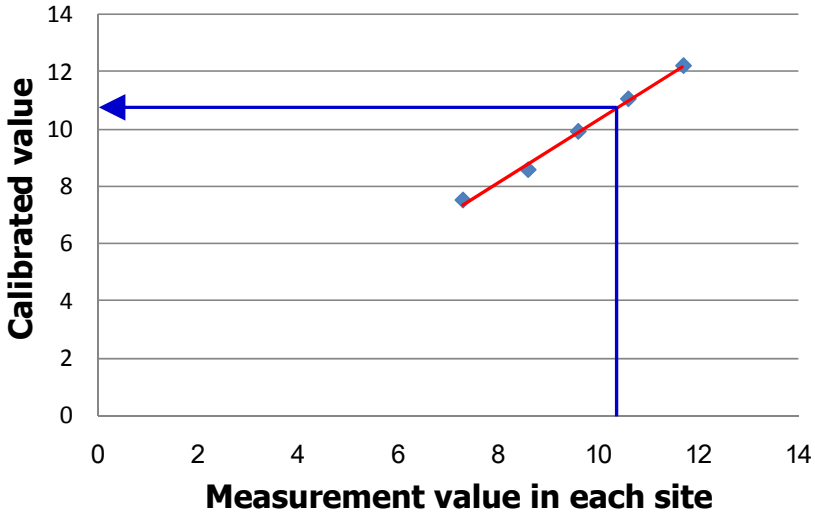
Measurement Value
Tested Tyre

B

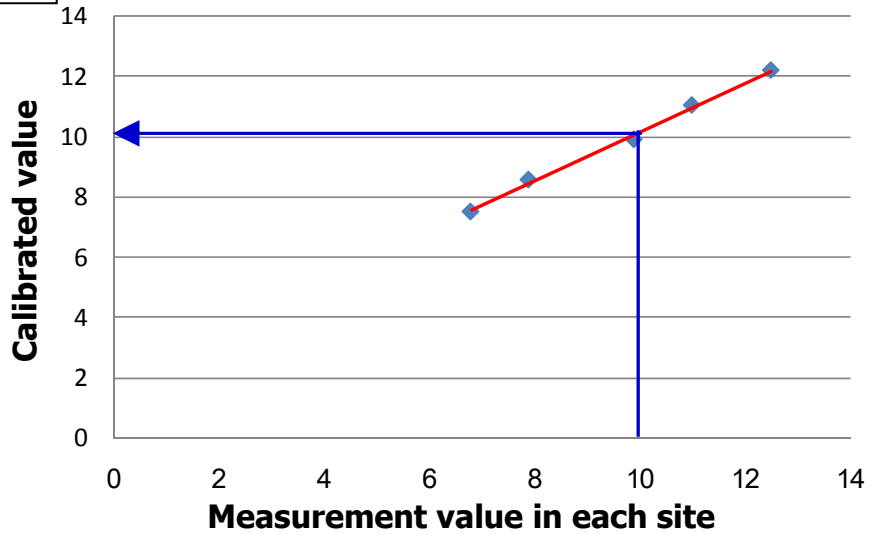


③ Calibration Formula

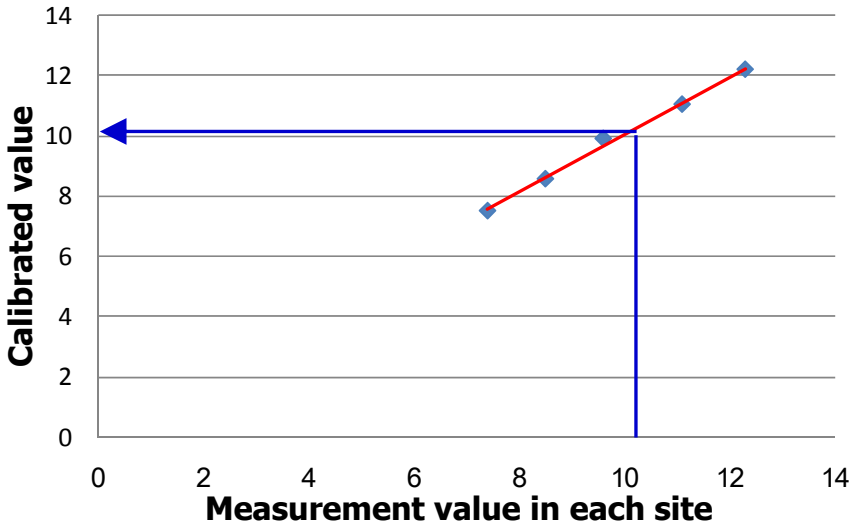
C



D



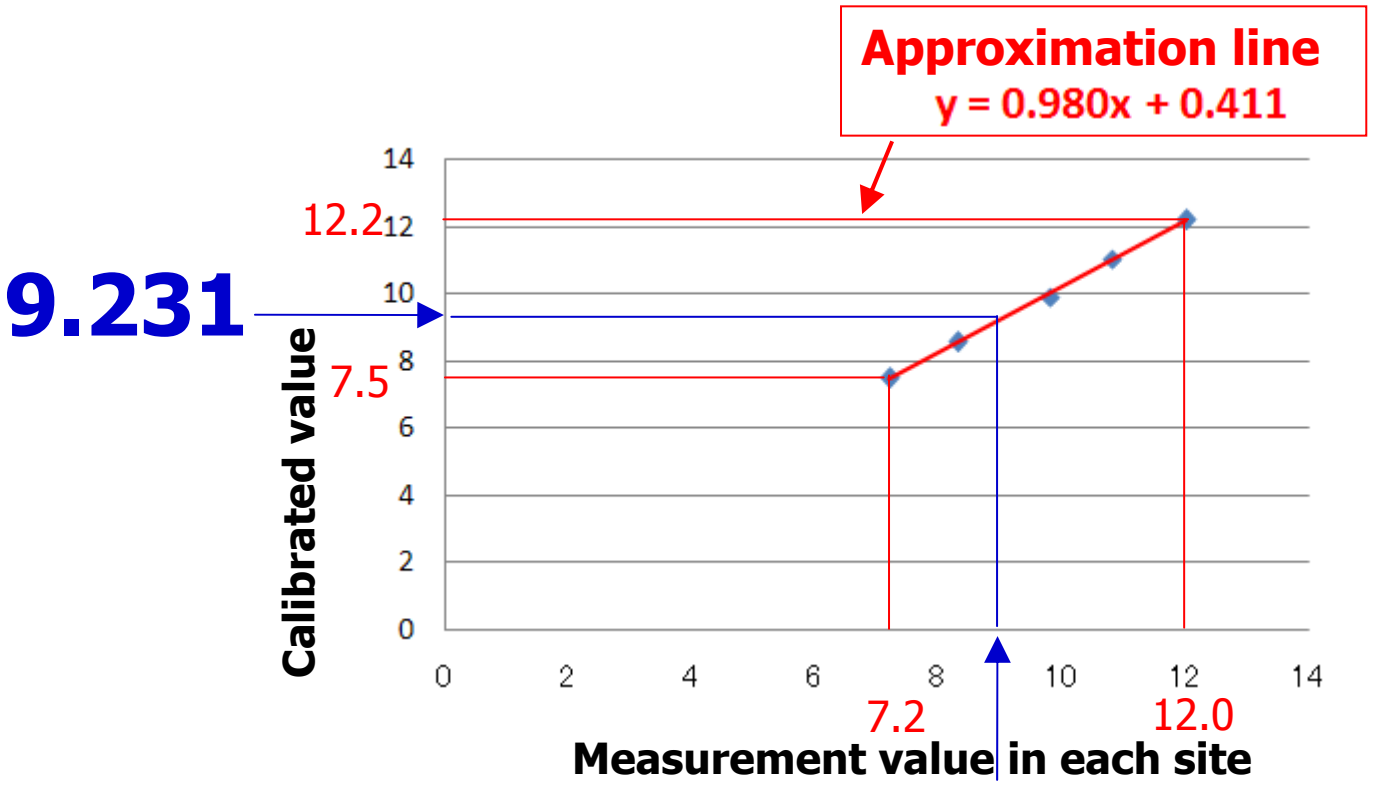
E



③ Calibration Formula

（Example of transformation measurement value to calibration value）

A



9.00

Calibration Formula:

Calibration value (Evaluation value)

= (0.980 × Measurement value) + 0.411

If the measurement value is 9.00,

then the evaluation value is 9.231.

Conclusion

Adopting the alignment procedures proposed among Technical Services, it will be possible equally to compare the compliance test results among different Type Approval Authorities.