

Proposal for Alignment procedure using RRC value among Technical Services

Background

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

While Japan supports this idea basically,

- The alignment procedures in the EC proposal seem to be lacking,
- Current test procedures specified in ISO28580 are not enough to keep the accuracy among each technical service test sites.

Japan proposal

Japan proposes to insert
TSs Alignment procedure
of RRC standard value as
the following slides

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

H : Higher RRC **L** : Lower RRC

② **Measurement of alignment tyres (using same batch tyre) at Technical Services (TSs)**

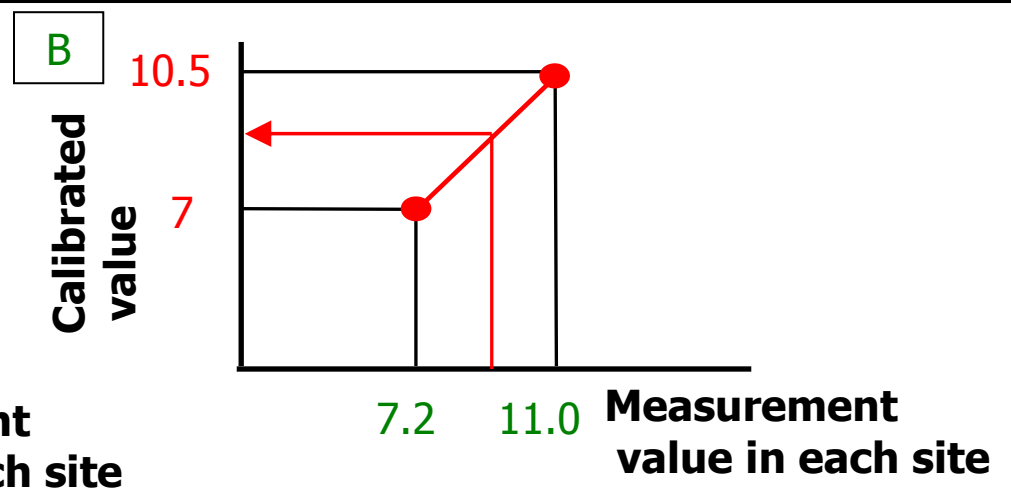
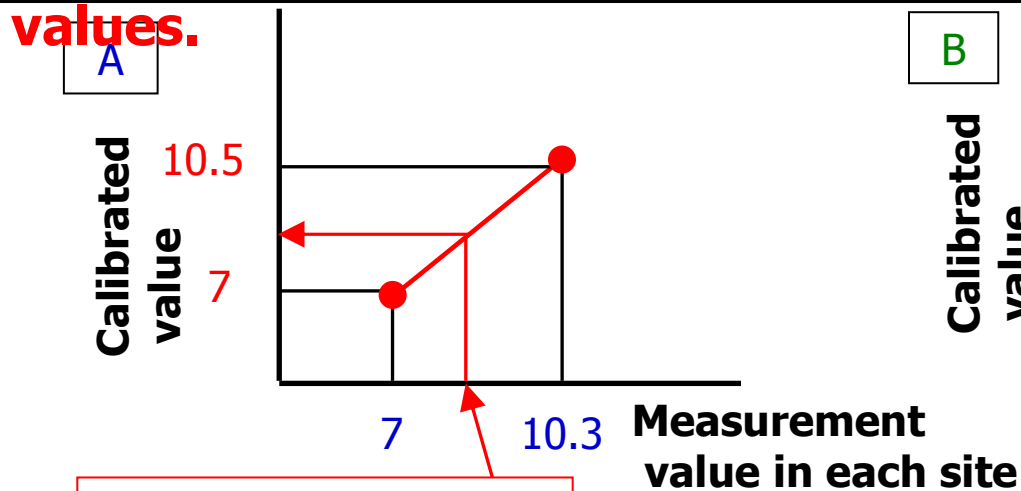
Technical Services	Higher RRC Alignment tyre H	Lower RRC Alignment tyre L
A	10.3	7.0
B	11.0	7.2
C	10.2	6.8
Average	10.5	7.0

TS: **A** **B** **C**

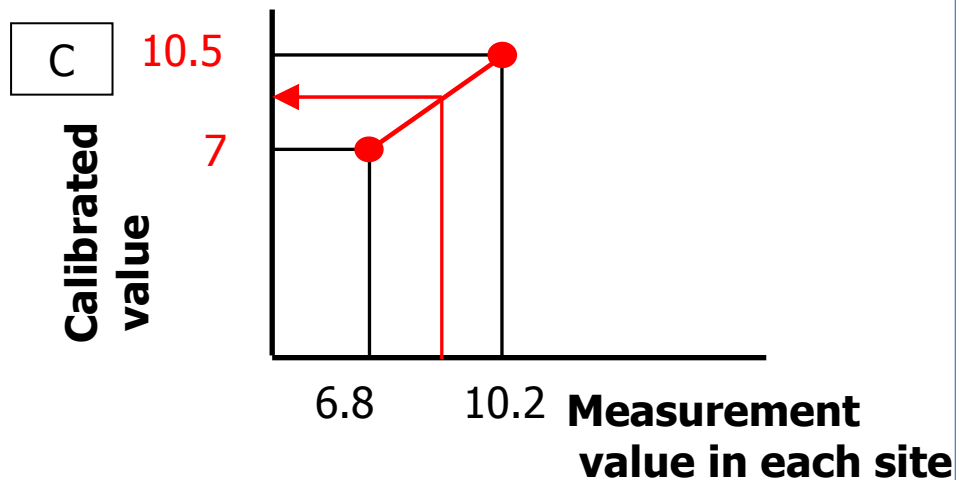
Adopting average value as 'Standard Value'

③ Calibration Formula

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



Measurement Value Tested Tyre



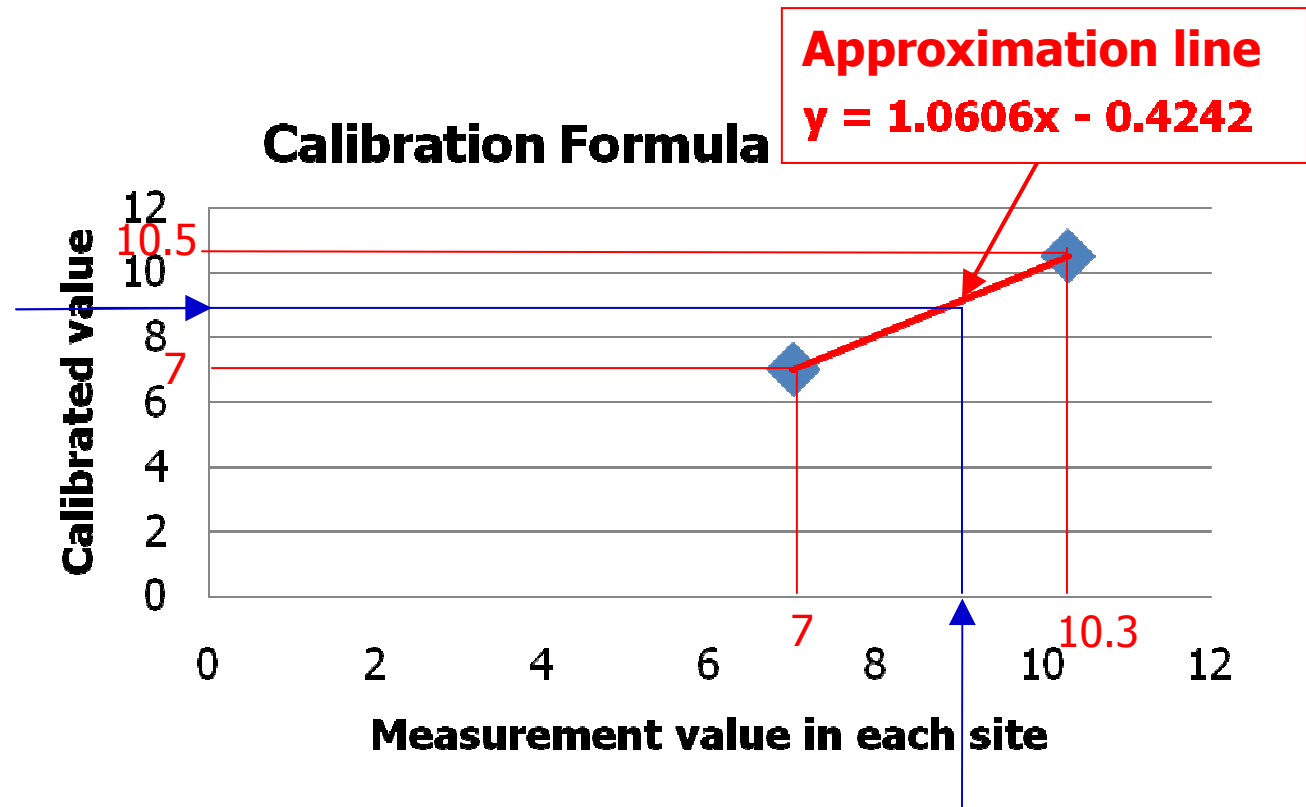
Technical Services	Higher RRC Alignment tyre	Lower RRC Alignment tyre
A	10.3	7.0
B	11.0	7.2
C	10.2	6.8
Standard Value	10.5	7.0

③ Calibration Formula

(Example of transformation measurement value to calibration value)

A

9.12



Calibration Formula:

Calibration value (Evaluation value)

$$= (1.0606 \times \text{Measurement value}) - 0.4242$$

9.00

If the measurement value is **9.00**,

then the evaluation value is **9.12**

Conclusion

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