

Flex-GTR Master Leg Level Impactor Test Data - Pendulum Test -

June 28, 2013

Japan Automobile Standards Internationalization Center (JASIC)

Background

- At the 6th IG GTR9-PH2 meeting, Flex-GTR Master leg test data from the round robin tests were requested to be sent to BAST (A-6-06).
- Japan did not participate in the round robin tests, so we have no test data which meets the requirements of A-6-06.
- On the other hand, we have a Flex-GTR Master leg level impactor in Japan, so we would like to provide its pendulum test data for IG GTR9-PH2 activity.

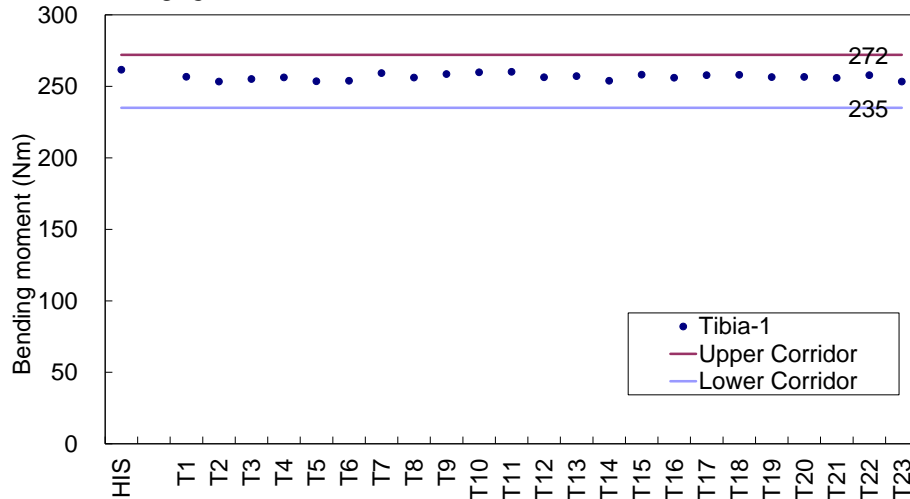
Impactor Information

- Flex-GTR Master leg level impactor
 - ✓ supplied after 12 June, 2012
- The impactor has been used for internal tests at a Japanese car manufacturer.
 - ✓ internal pendulum tests as well as car tests

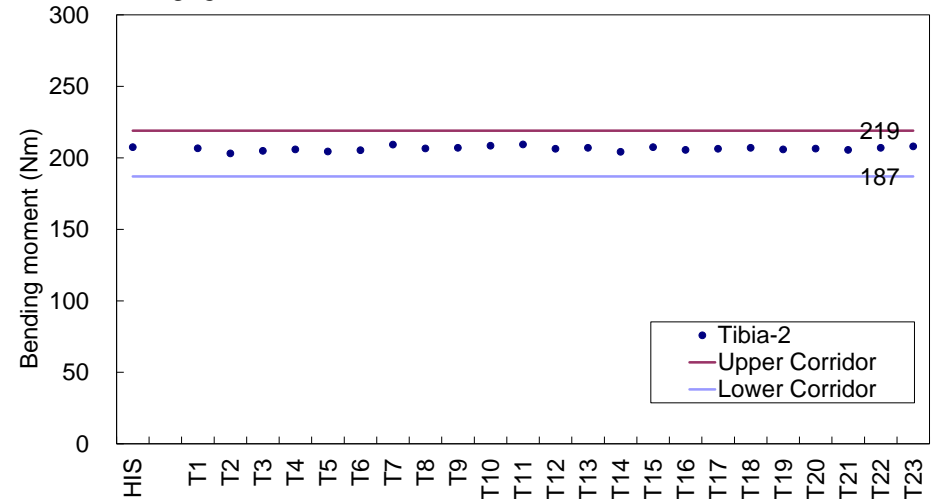
Pendulum Test Results compared with Master Leg Corridors

- Tibia outputs of the Flex-GTR Master leg level impactor fall within the Flex-GTR Master leg pendulum certification test corridors, and the outputs are stable.

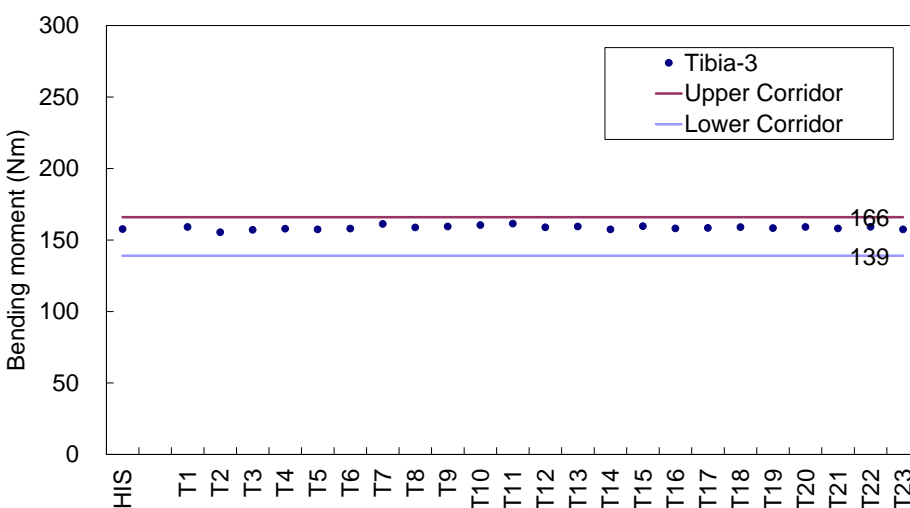
Tibia 1



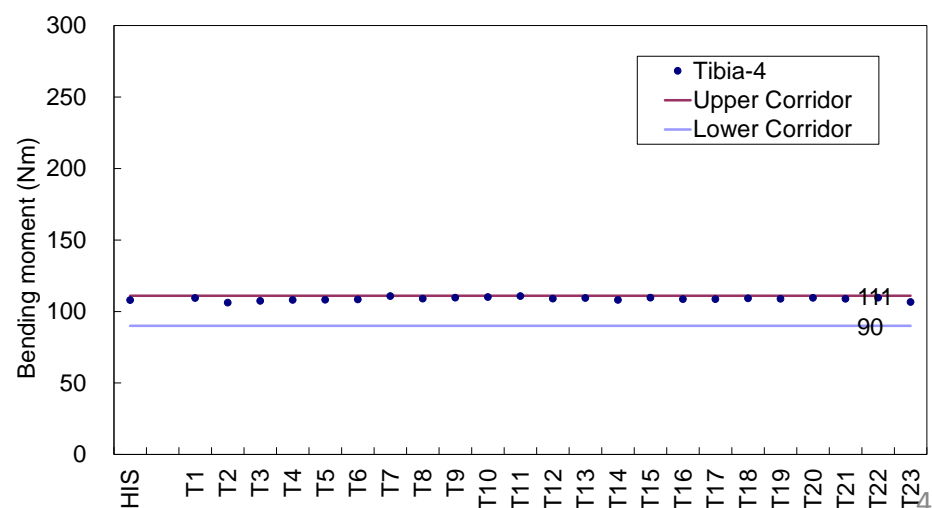
Tibia 2



Tibia 3



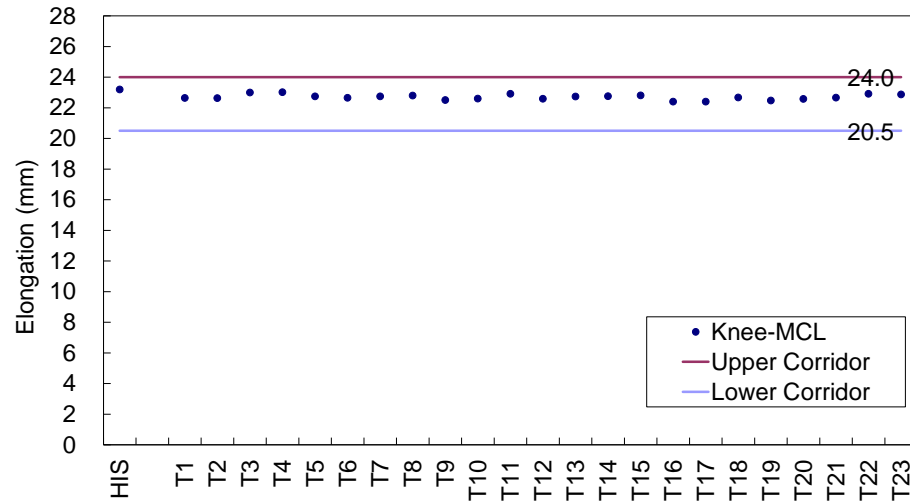
Tibia 4



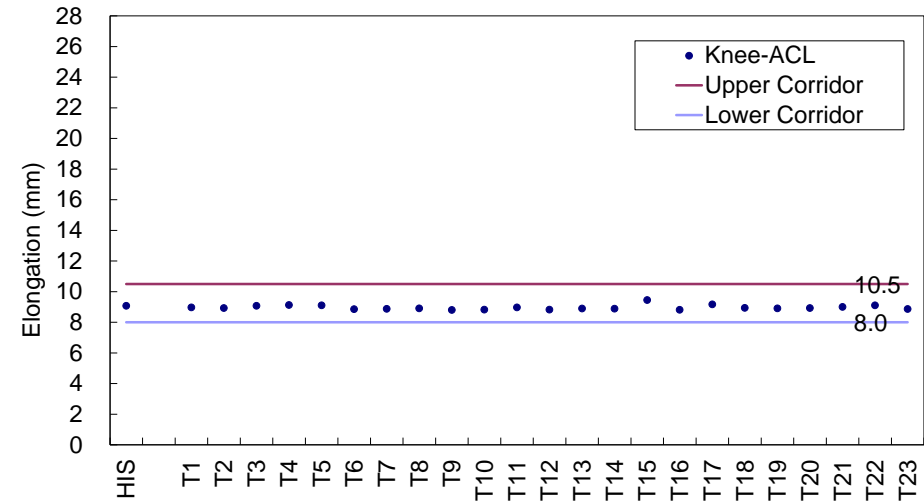
Pendulum Test Results compared with Master Leg Corridors

- Knee outputs of the Flex-GTR Master leg level impactor fall within the Flex-GTR Master leg pendulum certification test corridors, and the outputs are stable.

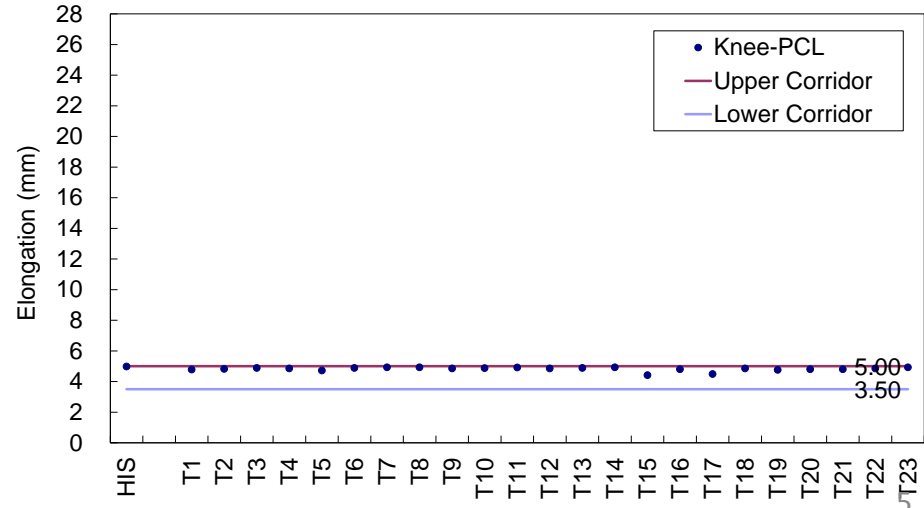
MCL



ACL



PCL



Summary

- Japan investigated pendulum certification test data of a Flex-GTR Master leg level impactor in Japan.
- All outputs of the Flex-GTR Master leg level impactor fall within the Flex-GTR Master leg pendulum certification test corridors, and it was confirmed that the outputs are stable.
- This result implies that there are no concerns regarding durability of the Flex-GTR master leg level impactor under normal use conditions.