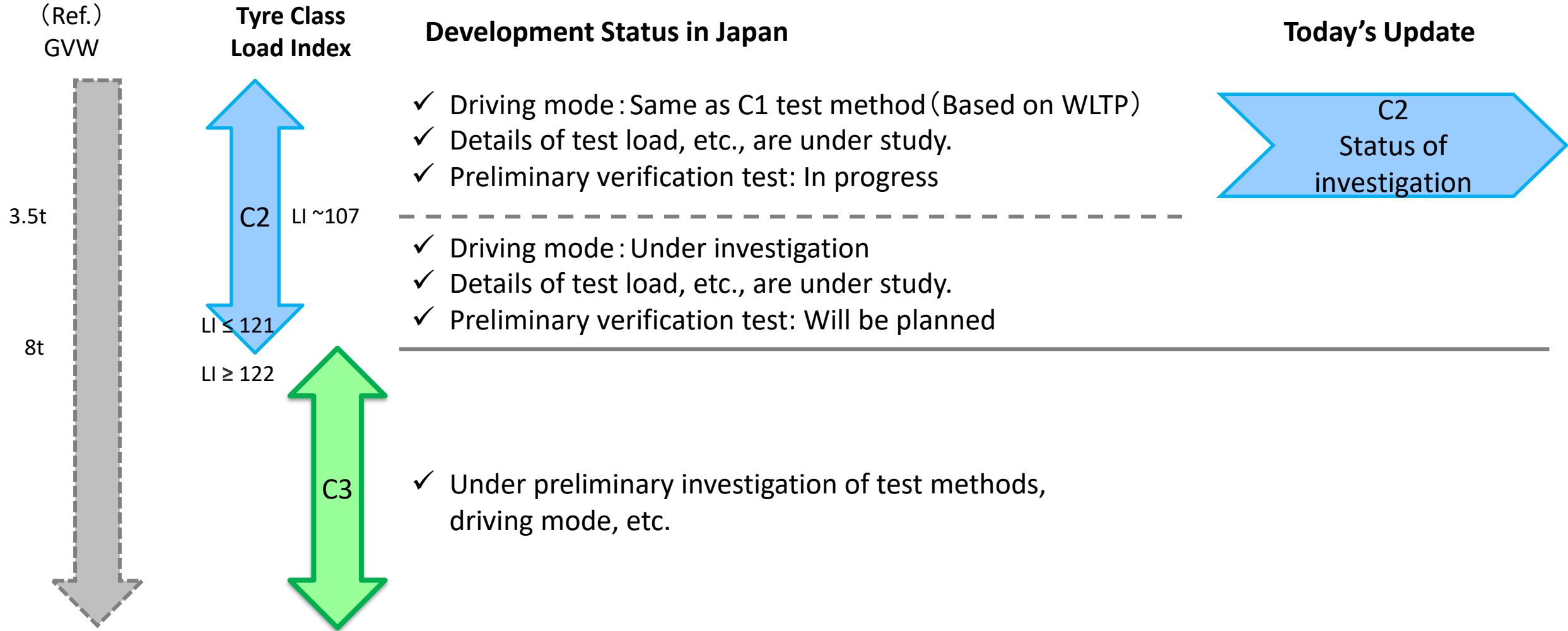


# Development of Abrasion Test Method for C2 Tyres



**JAPAN AUTOMOBILE STANDARDS INTERNATIONALIZATION CENTER**

# Development status of abrasion test method for C2/C3 tyres



- Concept of development
- C2 test method is being developed based on the C1 test method, because driving mode of C1 test method is based on WLTC, and the scope of WLTC includes also vehicles of GVW  $\leq 3.5t$  (C2 tyres with LI approximately  $\leq 107$ ).
- Study whether the test conditions for C1 tyres can be applied to C2.
  
- Study of test conditions
- Items can be applied by test conditions for C1 tyres:
  - Test machine: external drum (drum diameter  $\geq 3m$ )
  - Input: WLTP based
  - Surface: definition of surface roughness
  - Temperature: 25°C
- Items being studied according to characteristics of C2 tyres:
  - Load
  - Inflation pressure
  - Running distance

Note: Same reference tyres should apply to both indoor and vehicle test methods

**Test conditions of load, inflation pressure and running distance are being studied**

- Purpose: To study test conditions of load, inflation pressure and running distance
- List of test tyres

Size dimension	Load Index	Max Inflation Pressure	Normal	3PMSF
145/80R12 LT	80/78	350kPa	Yes	Yes
175/75R15 LT	103/101	600kPa	Yes	Yes
195/80R15 LT	107/105	450kPa	Yes	Yes

Preliminary verification test is being conducted for test condition study

# Development of C2 tyre indoor drum test method – Timeline

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
LI ≤ 107	Preliminary Verification Test								
	Postprocessing								
LI ≥ 108	Assessment for Test Condition								
	Preliminary Verification Test			Test Plan To be Confirmed					
Preparing Informal Document									

- C2 tyre with LI ≤ 107: Preliminary verification test and postprocessing ongoing.
- C2 tyre with LI ≥ 108: Driving mode and detailed test conditions under study.

**JASIC is developing C2 test method towards GRBP in September.**