

# Proposal to Establish ISO/TC 127/SC 5 Sustainability

ISO/TC 127 Plenary Meeting

October 26, 2018

Liuzhou, China

Prepared by: SHANG Haibo, SAC/TC 334



- 1. Sustainability Worldwide
- 2. Sustainability in China
- 3. EMM Sustainability Standards Development in China
- 4. EMM Sustainability Standards Development in TC 127
- 5. Sustainability Standards Development in other ISO TC
- 6. Our Understanding and Proposal

- Topic of very strong interest worldwide
- UN SDGs and ISO standards helping to meet SDGs
- Strong governmental support in many countries
- Many organizations developing guidance
- Many EMM manufacturers providing general information



## **Sustainability in China**

- China SAC and National EMM TC slogan "Innovation, Coordination, Green, Opening, Sharing" – highly aligned with ISO goals
- One of the largest EMM manufacturing regions and markets
   Vast EMM volume total holding quantity (data as of end of 2017):
  - HEX: 1.7 million
  - Loader: 1.9 million
  - Dozer above 100 hp: 80,000
  - Grader: 39,000
  - Roller: 140,000
- Attention and strong support from government
- Many sustainability related standards (e.g. EMM reman) and more coming
- Chinese mirror committee of ISO/TC 127, Chinese EMM TC has established SAC/TC334/SC 2 - Sustainability Development

## EMM Sustainability/Reman Related Standards in China SAC/TC 334

#### 8 published national standards

- GB/T 30964-2013 EMM Recyclability and recoverability Terminology and calculation method
- GB/T 32819-2016 EMM Classification and making for recoverability of components
- GB/T 32806-2016 EMM Remanufactured components General technical specifications
- GB/T 32801-2016 EMM Remanufactured components Technical specifications of assembly
- GB/T 32802-2016 EMM Remanufactured components Technical specifications of pre-delivery inspection
- GB/T 32803-2016 EMM Remanufactured components Technical specifications of classification
- GB/T 32804-2016 EMM Remanufactured components Technical specifications of disassembly
- GB/T 32805-2016 EMM Remanufactured components Technical specifications of cleaning

#### 5 industrial standards to be published soon

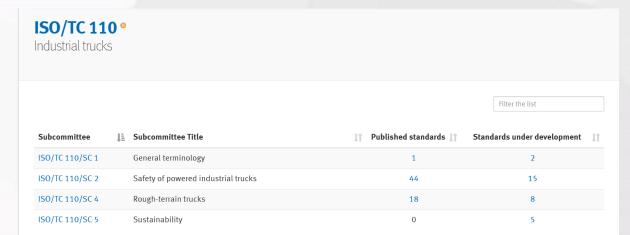
#### 2 industrial standards NWIPs

### Work and achievements of TC 127 and its WG 8:

- ISO 16714:2008 EMM Recyclability and recoverability Terminology and calculation method
- ISO 10987-2:2017 EMM Sustainability Part 2: Remanufacturing
- ISO 10987-3:2017 EMM Sustainability Part 3: Used machines

## Sustainability in Other ISO TC – TC 110 Industrial Trucks SAC/TC 334

- Establishment of SC 5 Sustainability in 2015
- Twinning secretariat between SAC China and DIN Germany
- 5 standards under development
- SC 5 co-chair introduces ISO/TC 127 sustainability standards development information to SC
- SC 5 agrees to learn the TC 127 pattern and to develop NWIPs of similar remanufacturing standards for industrial trucks



## **Our Understanding & China Proposal**

- ➤ More work should be considered regarding remanufacturing & used machines
- Many other sustainability related emerging issues to cope with, such as:
  - Green technology
  - Energy saving and material reduction
  - Intelligent operation (AI)
  - Machine learning
  - Information/data management
  - Hybrid and electric machines
  - More...
- ➢ If TC 127 resolves to establish SC 5 Sustainability, China is willing to serve as Secretariat for SC 5 and provide the Chair



## Questions or comments? Thank you.