

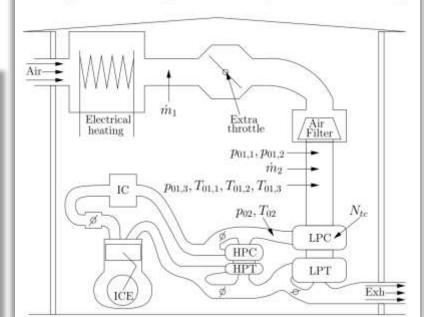
#### OSKAR LEUFVEN, SCANIA BATTERY PACK AND VEHICLE TESTING

# LIFE AS LINK-SIC PHD STUDENT AND BEYOND



#### 14 November 2023 Info clas



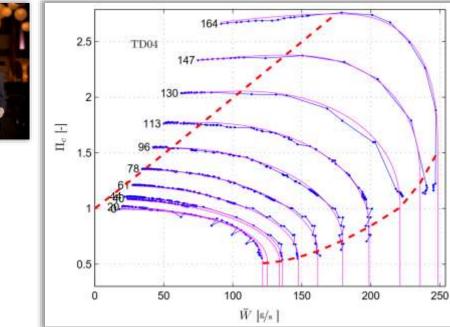


Paper 3. Inv. of compressor correction quantities for automotive appl.

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#### My background

- "Modeling <u>for</u> control of centrifugal compressor<u>s</u>"
  - Modeling for control vs. Modeling and control
- Test details vs. number of tests
  - University vs. industry
  - +1year preparation



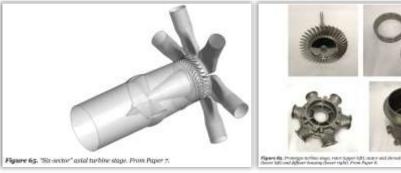




### Scania prototyping examples

- Scania Super prototype
  - 6 port sector divided axial turbine stage
  - Piping <1month
- CTT K98 (more next slide..) vs. Dia >140mm



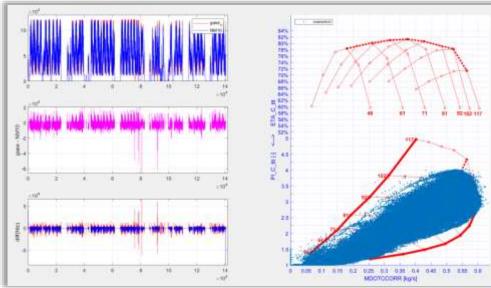


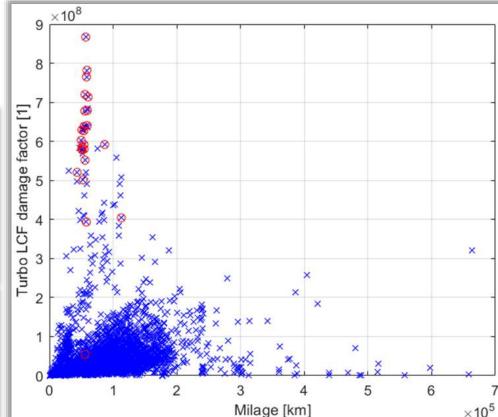


### (My)LinkSIC research in action!

- Joining industrialized research and patents
- Sales org. vs R&D
- The power of language







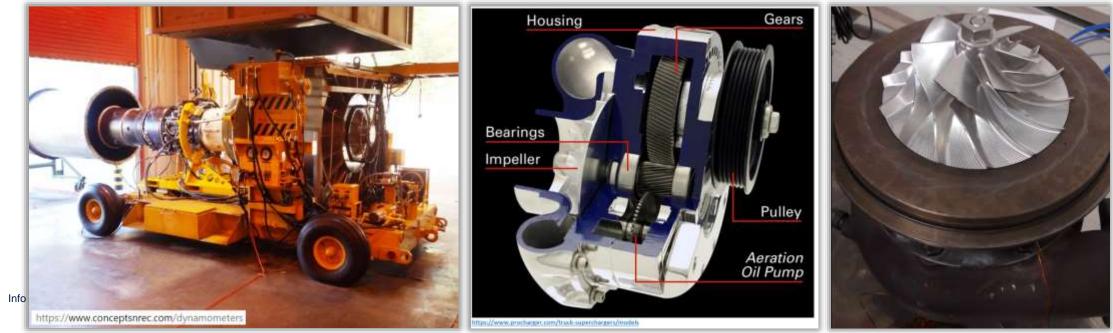


#### Touching on the electrification journey

- Auxiliary brake legal or customer requirements
  - ICE: CRB, exhaust brake or oil retarder system
  - BEV?

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- Charge battery!
- But when full?





#### **Electrification and digitalization journey**

- Will there be a glacier on Helags in the future?
  - "Never let a good crisis go to waste"
- What component will there be most of on a BEV-truck?





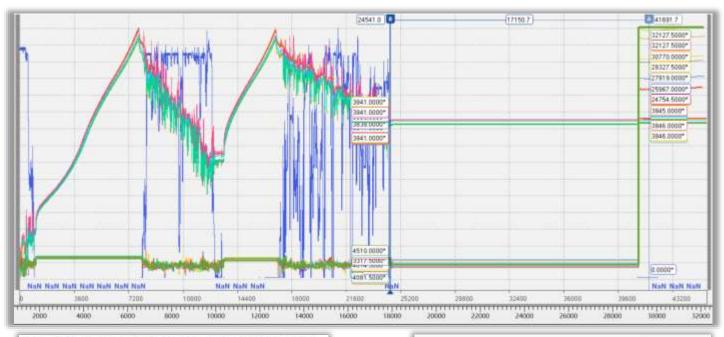
Foto: Erik Wedberg / Expressen Lifestyle

pup/en/home/newsroom/news/2022/scanias\_battery\_lab\_is\_up\_and\_running.htr



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#### **Electrification and digitalization journey**





Lastbil gick av vägen: "Föraren är oskadd"







#### **Conclusions and various thoughts**

- Do not be afraid to change technology area
  - Trust your developed methods, and yourself!
- It's fun to see one's efforts put into use
  - Research is perishable, make use of it while it is fresh!
- Best results are found when combining strengths
- It is too easy to
  - ...do measurements
  - ...convince higher mgmt of new ways to handle knowledge





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