Rising incidents of **Fires** on board Ro-Ro Vsls

- **13** Ro-Ro/car carrier fire incidents in 2022 alone, highest in the last decade
- **35** Fire incidents between 2005-2015 on Ro-Ro decks
- Catastrophic consequences of such fires if not controlled early
- Used ICE and Electric Vehicles and electrical systems failure major causes
- **37** total losses on Ro-Ros in past 10 years (All causes including fire)
Notable Fires on board Ro-Ro/ Car Carriers in the past 5 years

- Fremantle Highway  Jul 2023
- Grande Costa D’Avorio  Jul 2023
- Felicity Ace  Feb 2022
- Hoegh Xiamen  Jun 2020
- Grande Europe  May 2019
- Grande America  Mar 2019
- Sincerity Ace  Dec 2018

Photo's: GCaptain
• Li-Ion Battery fires are almost impossible to extinguish if a Thermal Runaway occurs
• Damaged vehicles require special attention as they are a much higher risk
• Li-ion battery fires can be self-sufficient and continue to burn without access to additional oxygen, they may also continue to generate high amounts of heat following fire-extinction and are at risk of re-ignition.
• Above fires require specialist measures to control the spread of fire and to extinguish
• CO2 is unlikely to extinguish a Li-Ion battery fire
• Modern Li-ion batteries in EVs have Battery management systems which could reduce the risk of Thermal runaways
RO/RO VESSELS AND ELECTRIC VEHICLES – WHAT TO DO ABOUT FIRES?!

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