



# Lloyd's Register - Tankers, accidents/incidents and trends

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# Tankers – What we have seen since 2000?

## Major Accidents

M/T ERIKA Hull Failure (12/1999)



# Tankers – What we have seen since 2000?

## Major Accidents

M/T PRESTIGE Hull Failure (11/2002)



# TANKER – A TIMELINE OF EVENTS SINCE 2000

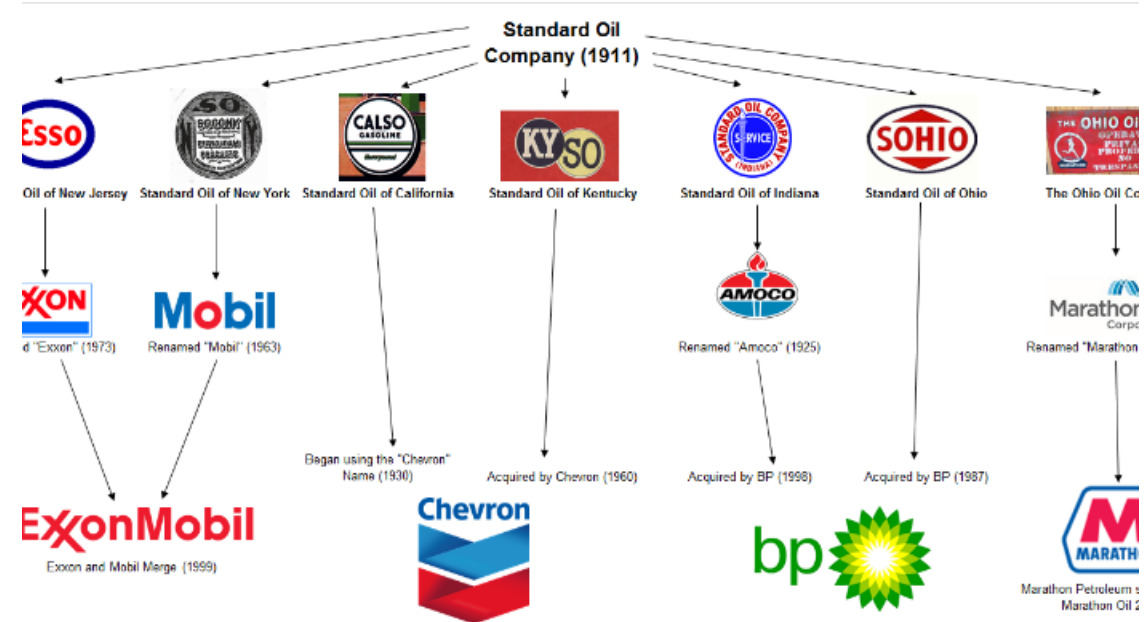
- **QUALITY, GREEN, EFFICIENT, SAFE**
  - Condition Assessment Program (CAP)
  - Single hull tanker phase-out
  - CSR Rules
  - PSPC tank coating requirements
  - Permanent means of Access



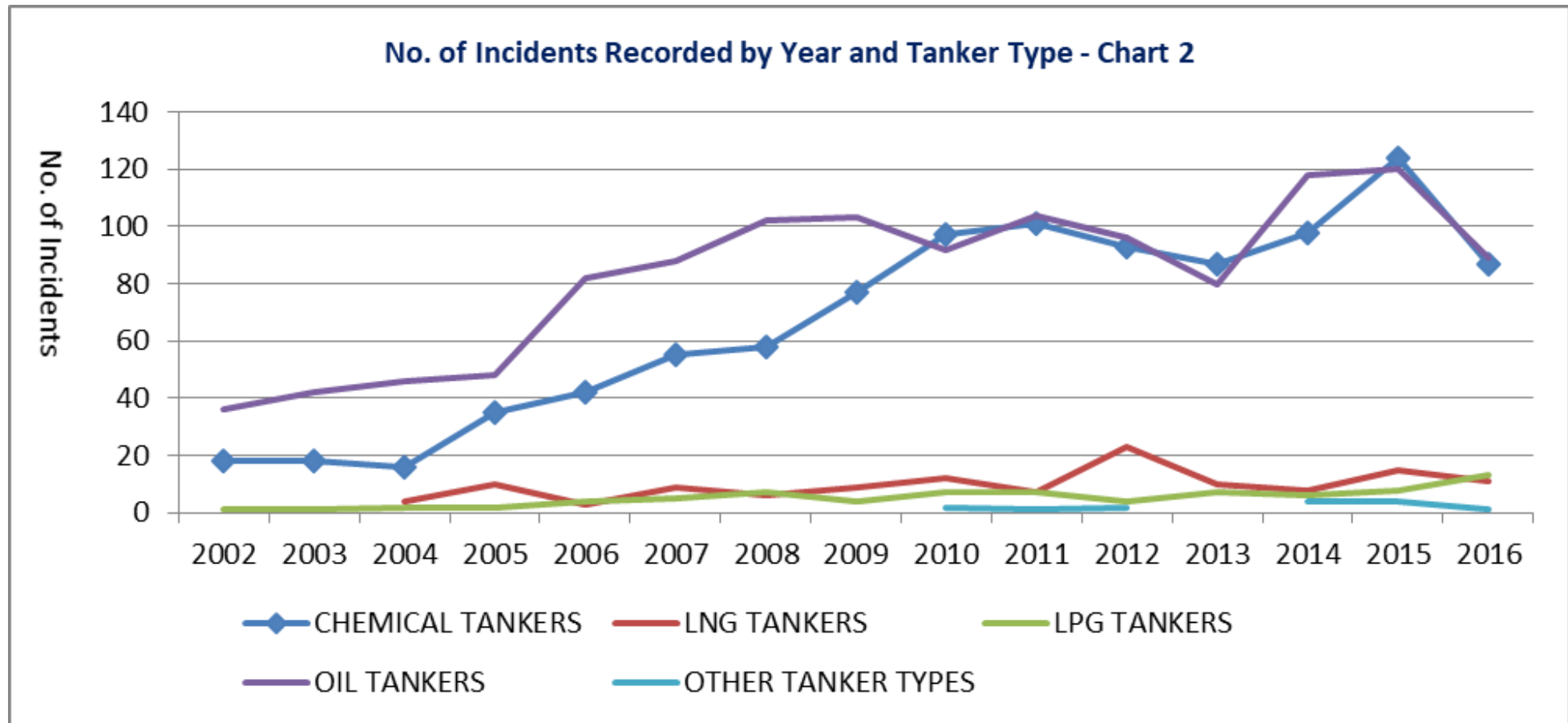


# TANKER – A TIMELINE OF EVENTS SINCE 2000

- MARPOL Annex VI (VOC/VECS)
- Dual Fuel Engines
- Efficient Designs
- PSC – Industry benchmarking standard
- Vetting Inspection



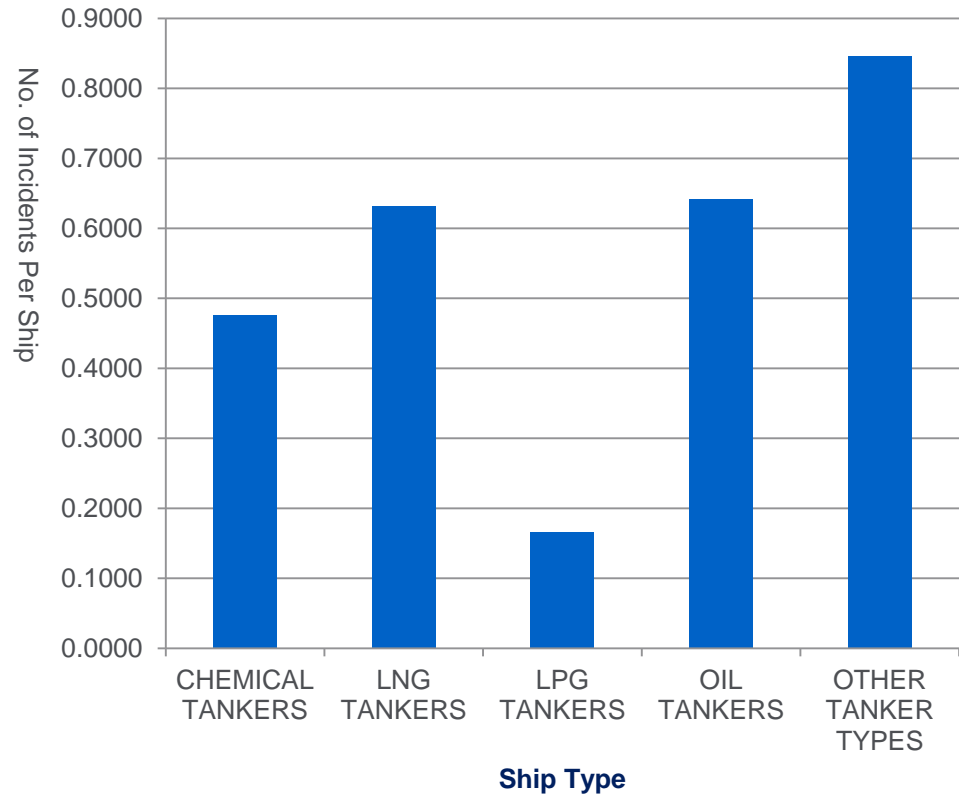
# NUMBER OF INCIDENTS BY YEAR & SHIP TYPE



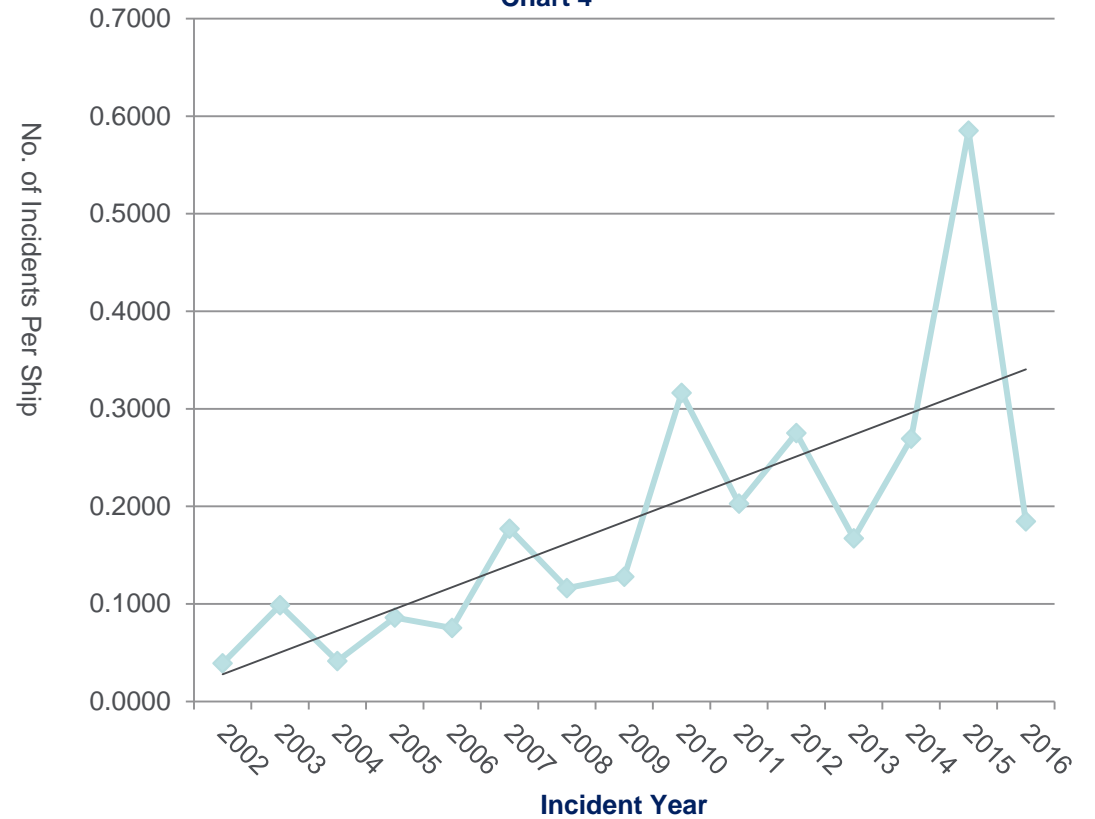
Source: LR Fleet database - LR Classed Fleet Data

# NUMBER OF INCIDENTS CAUSED BY CONTACT & INCIDENT TREND BY YEAR

No. of Incidents Per Ship by Tanker Type - Chart 3



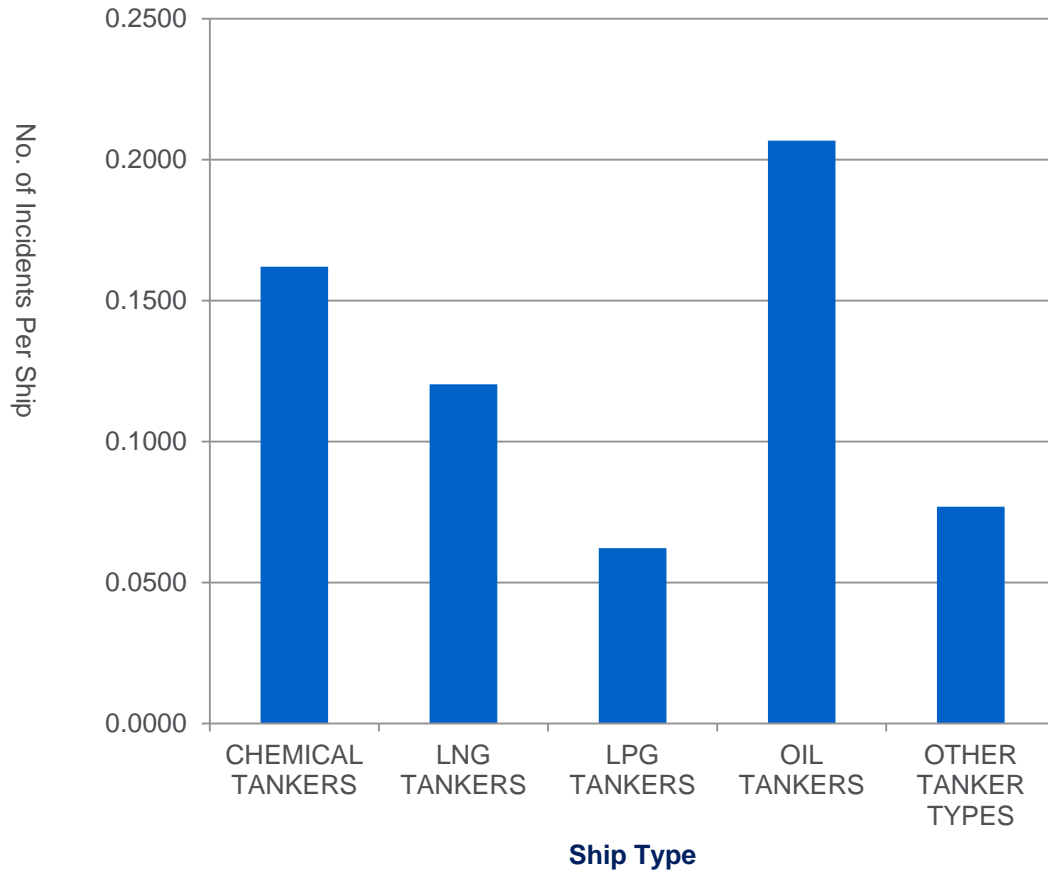
Total Number of Incidents Per Ship by Year for All Tanker Types - Chart 4



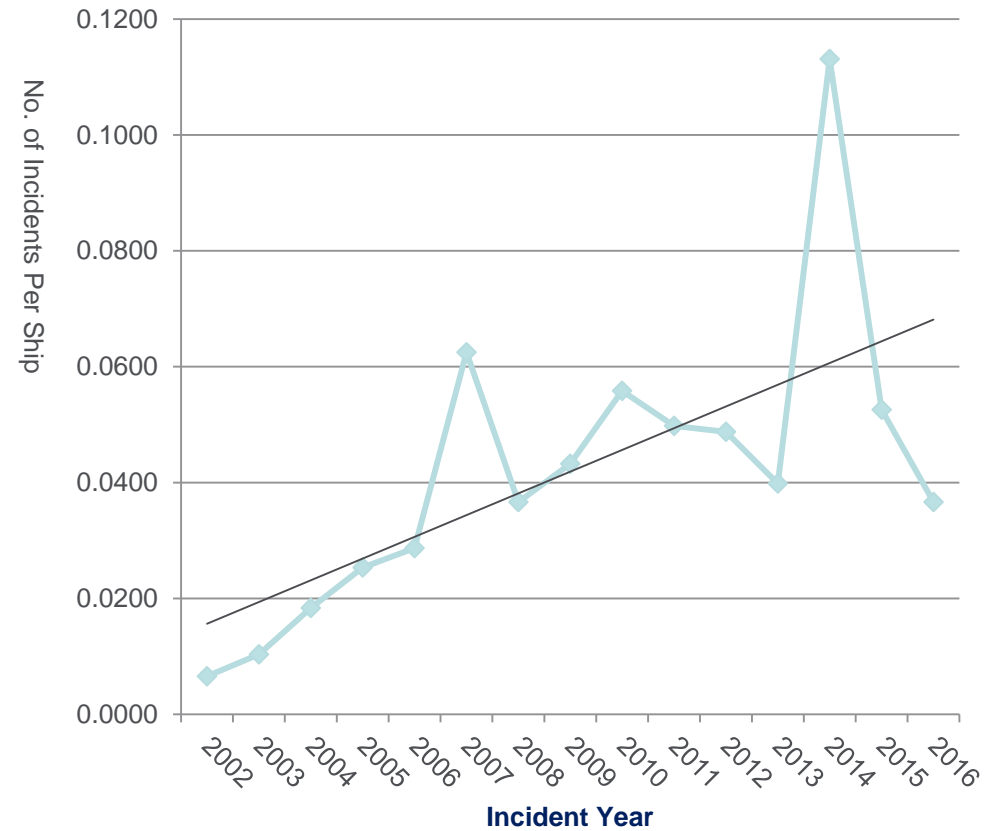
Source: LR Fleet database - LR Classed Fleet Data

# NUMBER OF INCIDENTS CAUSED BY CONTACT WITH QUAY & INCIDENT TREND BY YEAR

No. of Incidents Per Ship by Tanker Type - Chart 3



Total Number of Incidents Per Ship by Year for All Tanker Types - Chart 4

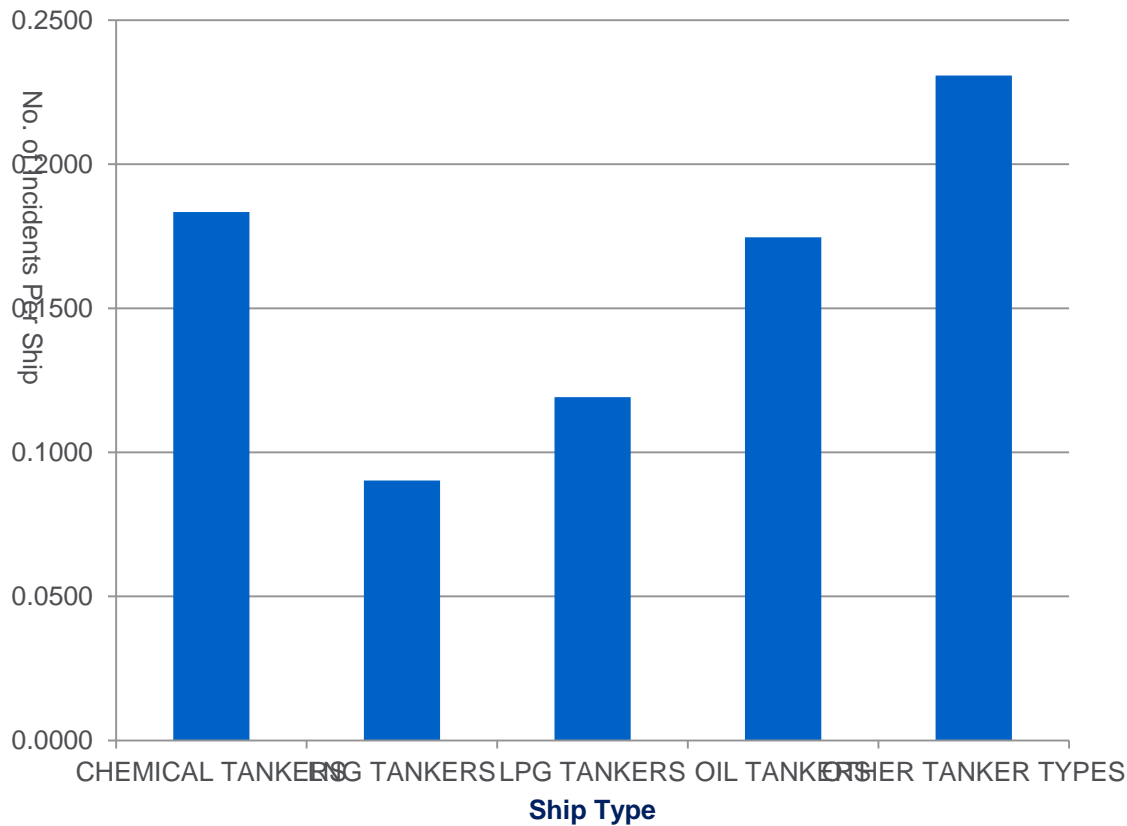


Source: LR Fleet database - LR Classed Fleet Data

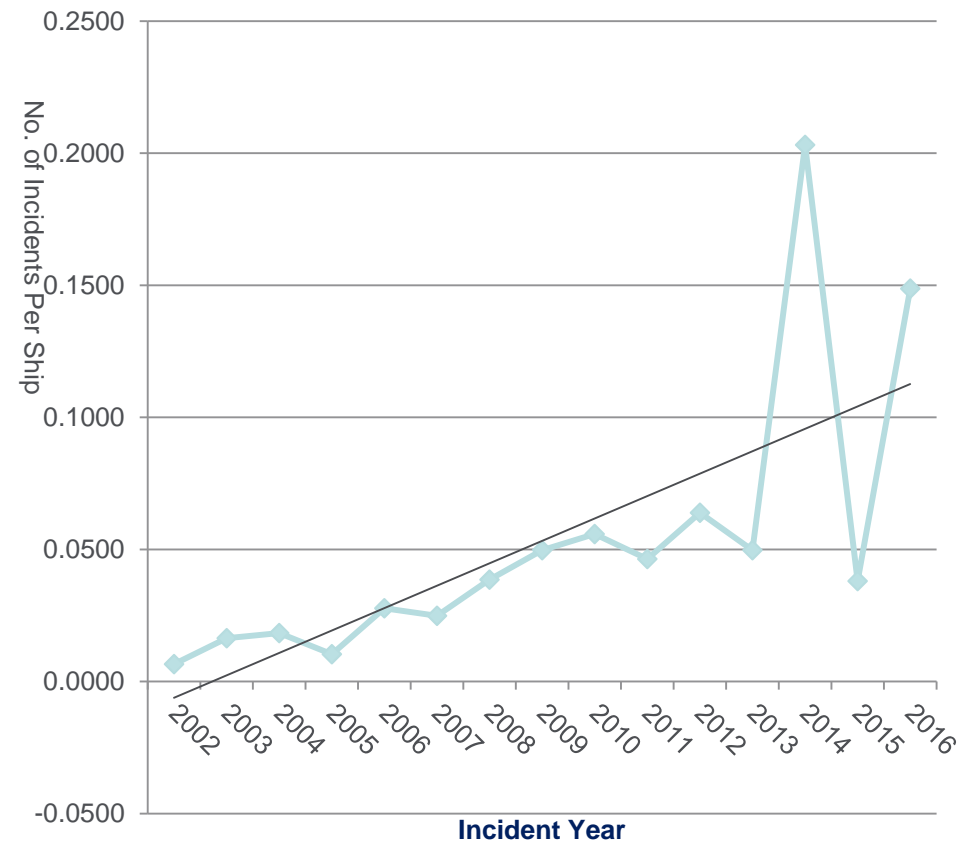


# NUMBER OF INCIDENTS CAUSED BY COLLISION & INCIDENT TREND BY YEAR

No. of Incidents Per Ship by Tanker Type - Chart 3



Total Number of Incidents Per Ship by Year for All Tanker Types - Chart 4



Source: LR Fleet database - LR Classed Fleet Data

# ROOT CAUSE

- Increased commercial pressure driving risk taking?
- Human Error?



# CONTRIBUTING FACTORS

- Industry over-regulated?
- Luck of crew training (time / budget)?
- Complicated Procedures?
- Luck of experienced crews (budget / availability)?
- Recession / poor market conditions, low charters, tight budget?



# MANAGING THE RISK

- Eliminate root cause
  - ✓ Safety Management (procedures)
  - ✓ Incident / near-misses reporting
  - ✓ Human Element (behaviors/culture)
- Manage severity / impact
  - ✓ Emergency Response
    - ❑ Communication
    - ❑ Infrastructure
  - ✓ MARPOL related training

# FUTURE TRENDS / THREATS?

- Increasing complexity of the asset
- Autonomous vessels?
- Robotic/remote Surveys?
- Cyber Ships

