



TMM INCIDENT ANALYSIS PERTAINING TO BRAKE FAILURES

VIRTUAL DAY OF LEARNING WEBINAR ON BRAKE TESTING FOR TMMs
25 MARCH 2021



MINERALS COUNCIL
SOUTH AFRICA

Outline of the presentation

- Key consideration
- Brake Failure incidents
- Accident classification as per SAMRASS
- Cause of Accident
- Equipment Type
- Conclusion

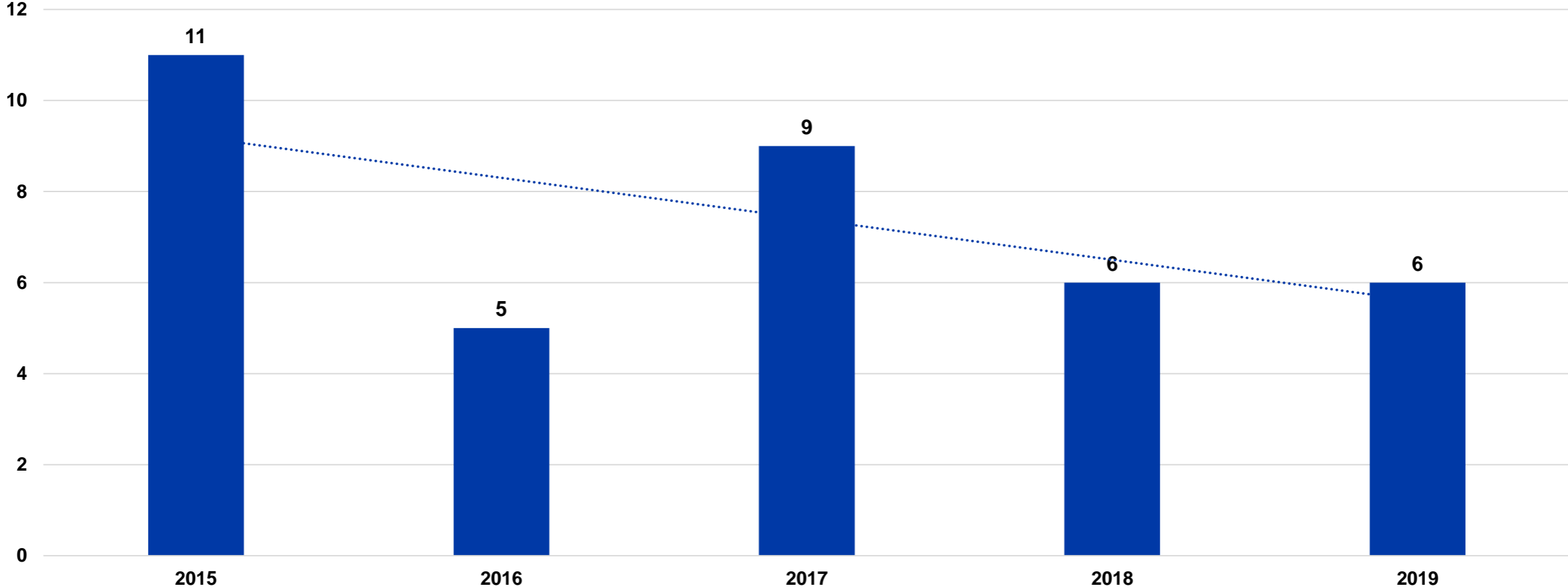
Key consideration

- DMRE SAMRASS data was used from 2015 to 2019
- Some of the accident descriptions were not captured clearly
- Incidents related to driver behaviour were excluded from the analysis
- Only incidents directly mentioning brakes were considered
- Common naming conventions were used to label equipment
- Incidents were not separated between underground and surface

Brake Failure Incidents

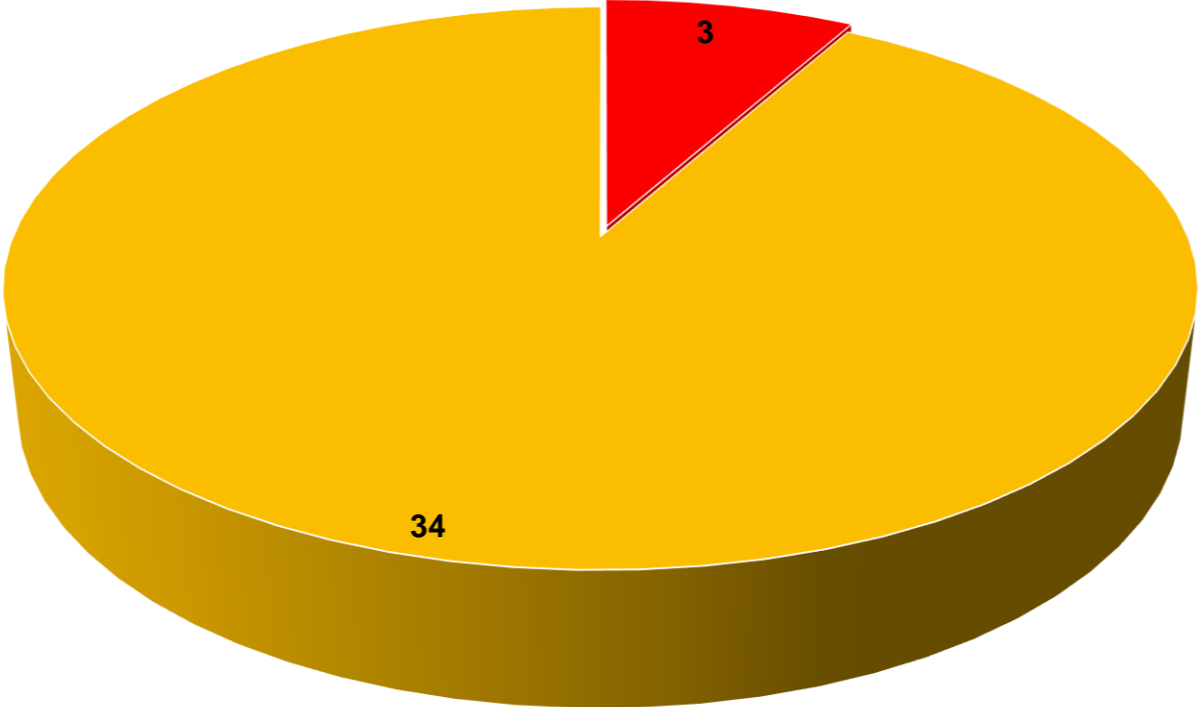
37

Brake failure incidents



Brake Failure Incidents

Total Brake Failure Incidents

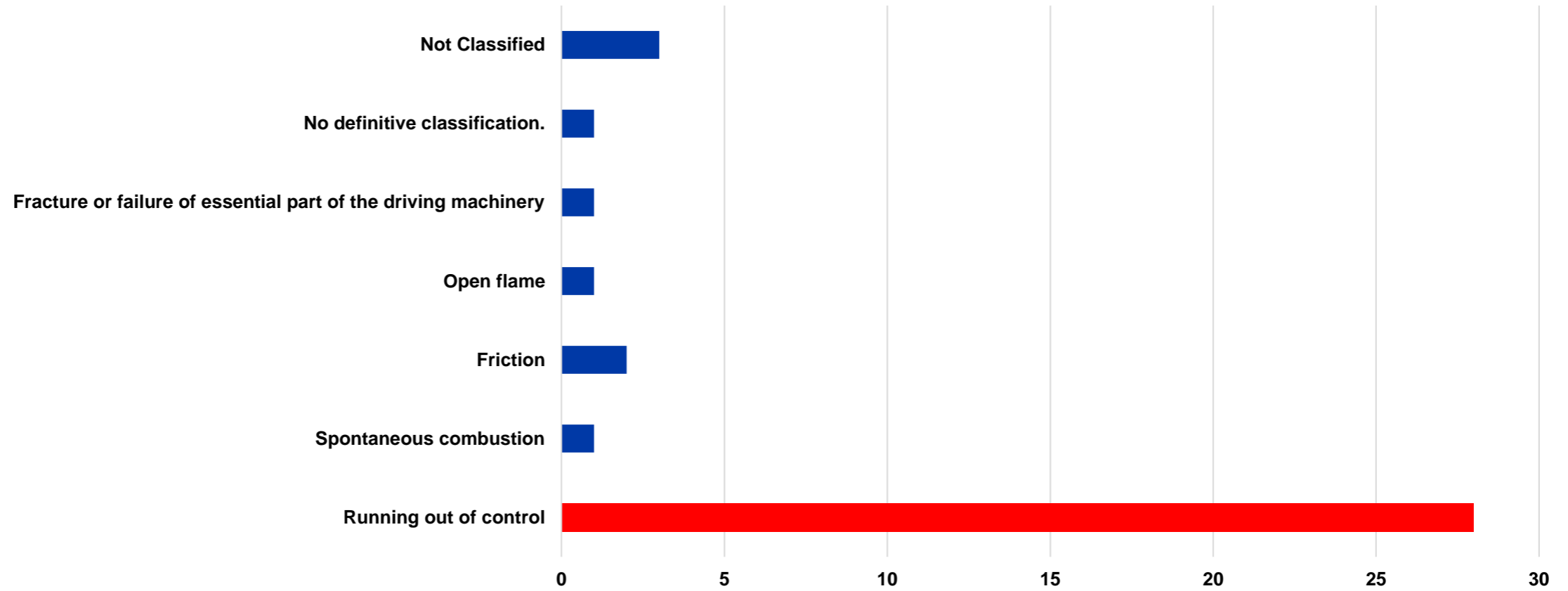


■ Injuries I ■ Dangerous Occ N

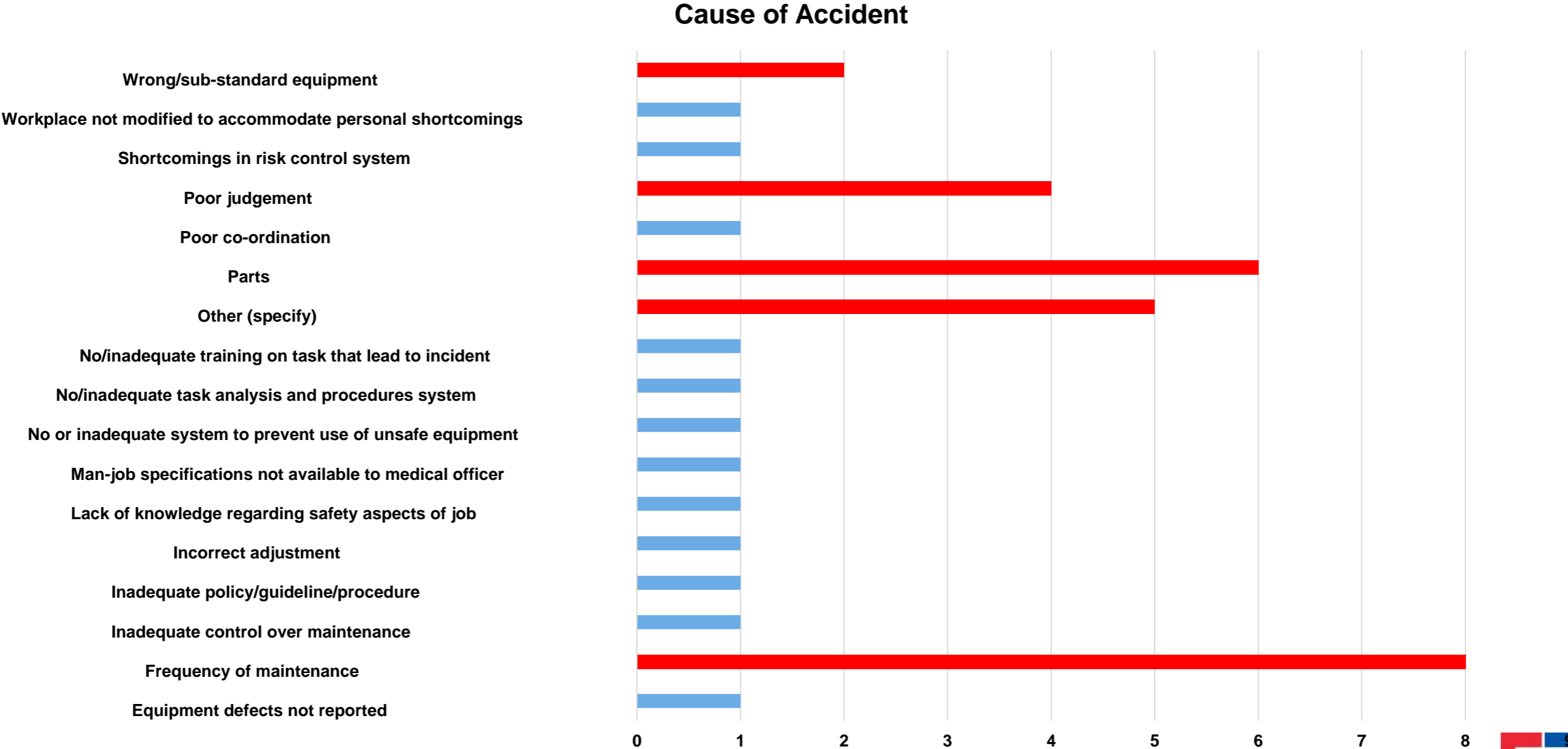


Accident classification as per SAMRASS

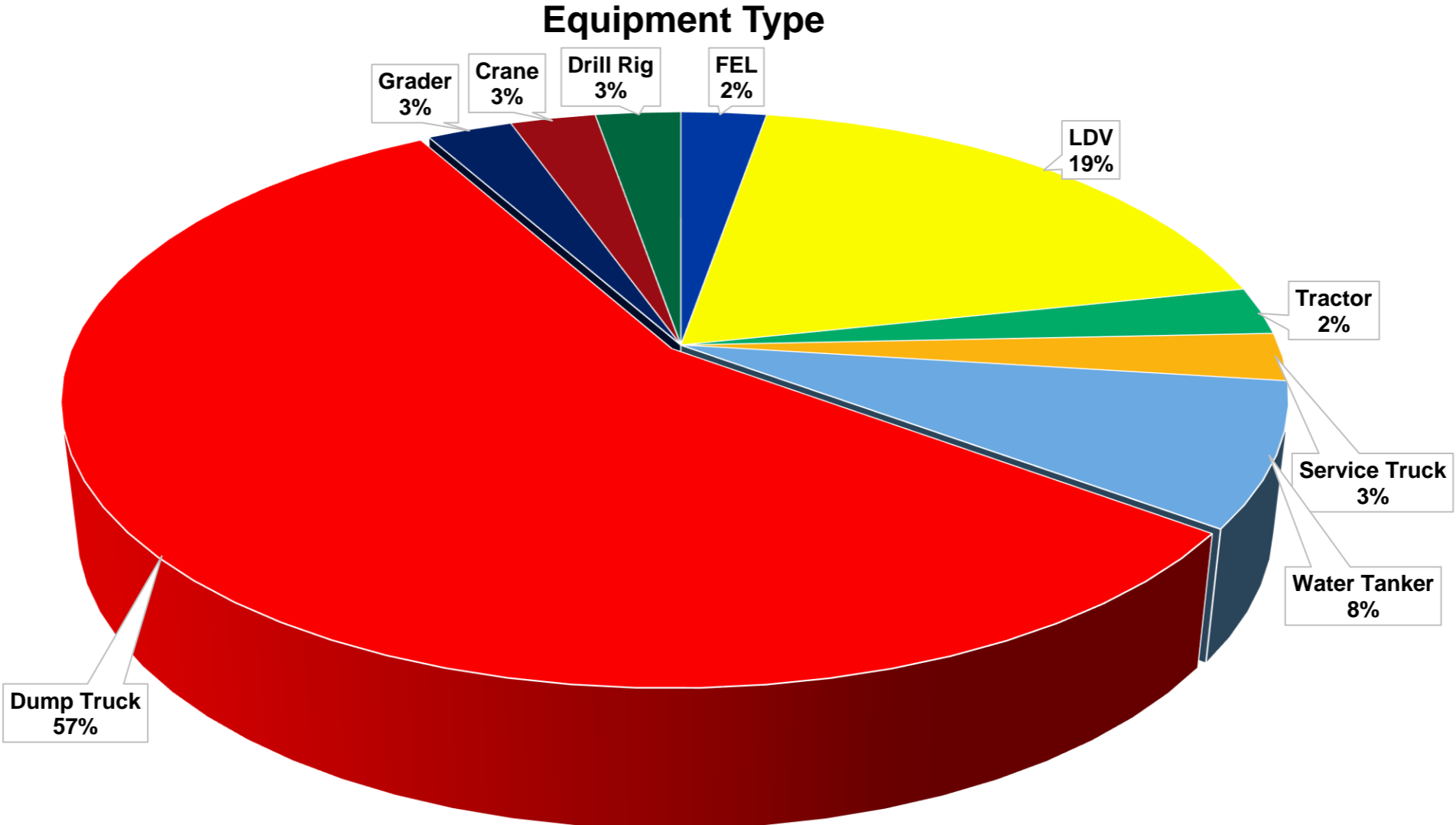
Classification Code



Cause of Accident



Equipment Type



Conclusion

- Brake failure incidents remain a significant concern
- Adequate capturing and reporting of Incidents on SAMRASS Forms
- LDVs and Dump Trucks are the equipment highest prone to brake failure
- Maintenance issues are the highest cause of brake failure
- A number of incidents occur either on decline or main haul road
- Some of the incidents resulted in runaways that damaged infrastructure and other mobile machinery



Thank You

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