

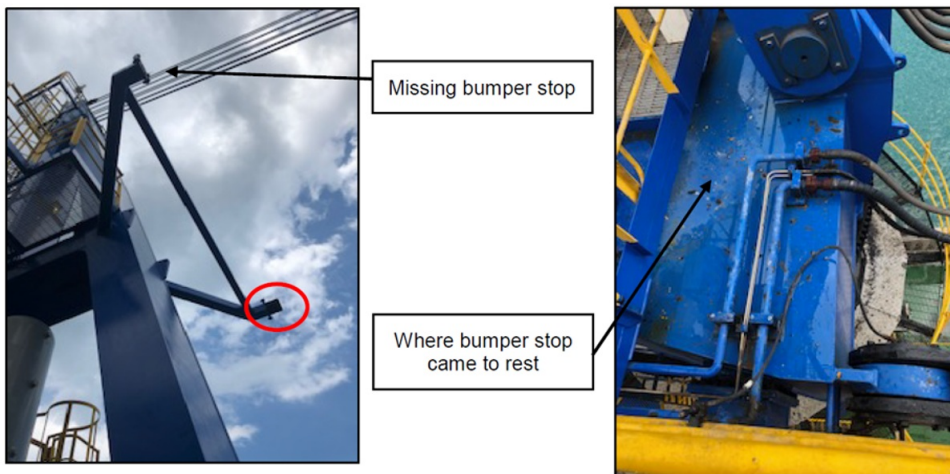
Dropped object near miss – Crane boom bumper stop falls off

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This was a high potential near miss dropped object incident in which a crane boom bumper stop fell onto the crane cab. No personnel were injured; however, there was potential for serious or fatal injury.

What happened?

The incident occurred during preparation for vessel reactivation following a period in warm stack; a crane mechanic spotted a part of one of the vessel cranes had fallen off and was missing.



The crane mechanic stopped his inspection and proceeded up the crane to investigate further. The bumper stop was observed laying on the crane cab level outside of the handrails. The bumper stop is made of vulcanised rubber that is bonded to a steel securing plate and fitted to the crane A frame with steel bolts. A steel wire secondary securing lanyard was fitted around the circumference of the vulcanised rubber and tied back to the A frame. The vulcanised rubber had detached from the steel securing plate which remained attached to the A frame; however, the secondary securing wire had corroded and parted allowing the bumper stop to fall.

During the warm stack period, dropped object inspections had routinely been performed on all three vessel cranes, with the most recent one being carried out a few days before this near miss incident.

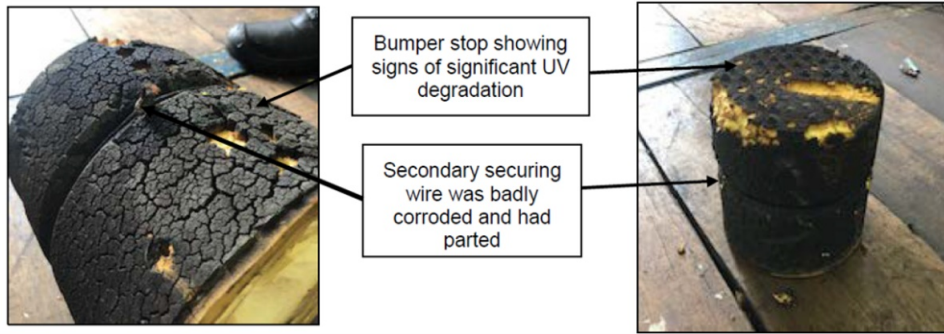
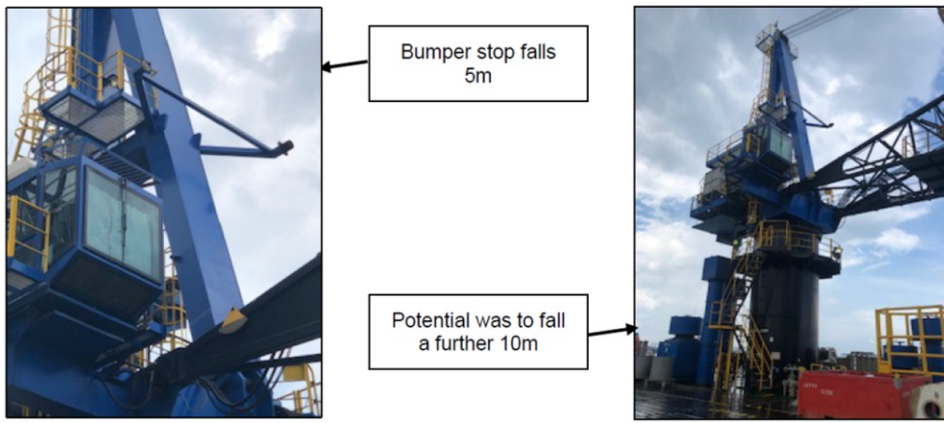
IOGP Life Saving Rules:



Line of fire



Safe mechanical lifting



What lessons were learned?

- The vulcanised rubber section of the bumper stops was vulnerable to UV light damage.
- Secondary retention wires should be manufactured from a corrosion resistant material.
- The location and lack of accessibility to the bumper stops prevented regular and sufficient physical inspection:
 - The condition of the bumper stops and the secondary retention device could not be fully assessed without scaffolding, rope access or alternative means.
 - The secondary retention wire was not clearly visible from the closest point of inspection 2m away. Degradation of the wire could not be seen.
 - The vulcanised rubber section of the bumper stop had deteriorated to an unstable condition and detached from the securing plate.
- There is potential for similar incidents to happen on other vessels, in areas where access to potential dropped objects is difficult.

What actions were taken?

- Continue existing dropped object inspections, and review existing dropped object checklists and/or work orders when next used and update if required.
- Identify equipment and structures that cannot be easily accessed for inspection and present a risk of dropped objects and determine the best means of safe access and frequency of inspection.
- Ensure exposed potential dropped objects are suitably protected from corrosion and ensure retention devices are of suitable strength and made from corrosion resistant material.
- Investigate the use of an alternative bumper stop material that does not degrade in sunlight and consider other components that are vulnerable to UV

- damage that could result in an incident.
- Consider if inspection or replacement frequency needs to be increased.

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