



## Incident Notice

No 03-08, 20 Feb 2008

### Incident: Planetary Cover Damage

#### Description:

The tyre serviceman requested assistance to move a haul truck that was being worked on in the tyre bay. As the truck moved forward, the position 6 planetary drive cover released from its mounting and fell to the floor. Lubricating oil and several other gear components normally contained within the cover were also released and fell to the floor. During the release, the three retaining bolts sheared off. Nobody was injured.



#### Lesson & Corrective Action:

Cat 785, 789 and 793 trucks use the outer wheel bolts to hold the cover in place against the hydraulic oil pressure. With the outer wheel off, there are only three small retaining bolts holding the cover. These bolts are not designed to withstand the hydraulic pressure if the truck is put in gear or driven.

The final drive axle can shear off the three small retaining bolts, allowing the hub plate to come off and consequently lose oil, shims and o-ring seals from the wheel hub.

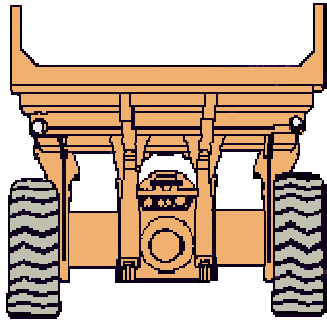
The hub plate can be secured (without having to fit the outer wheel) by inserting a minimum of six wheel retaining bolts evenly spaced around the cover. The bolts will require sufficient spacers or washers of the same thickness as the nave (eg. a large nut) to secure to the hub plate.

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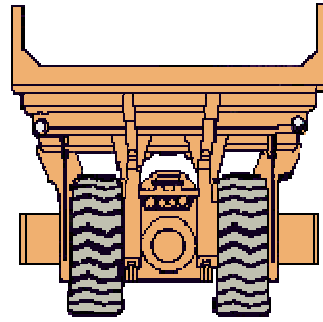
#### Disclaimer:

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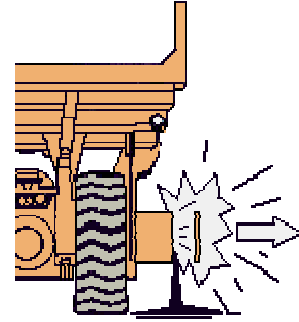
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Correct way to move vehicle



Do not place into gear or drive



Planetary cover bolts sheared when in gear or driven

Recommended actions from the investigation included:

- Ensure that personnel are clear from direct line of fire when the truck is being moved.
- Release a safe work procedure to outline best practice.

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