

## Bulletin 014/2013

**Subject:** Wheel Loader/Wheel Dozer Access Systems installed by Hastings Deering.

**Affected Product:** Refer chart below for affected models and serial numbers

854G	854K	992G	992K	993K	994H
A4W00277	H9K00185	ADZ00502	ZMX00250	Z9K00469	DWC00377
AMP00285	H9K00197	AZX00671	ZMX00273	Z9K00485	DWC00378
	H9K00203		ZMX00412	Z9K00494	DWC00379
	H9K00306		H4C00556	Z9K00509	DWC00355
	H9K00307		H4C00571	Z9K00521	DWC00356
	H9K00307			Z9K00522	
	H9K00310			Z9K00535	
	22100278			Z9K00546	
	22100354				
	22100367				
	22100368				
	22100374				
	22100383				
	22100407				

### Risk identified:

Failure of the access system stair pivot point.

### Problem Overview:

One of the pivot points on a wheel loader access system failed. Figures 1 and 2 below show a general view of failed stairs and a close up of the problem area.

Figure 1



Figure 2



## Problem Overview – continued

Investigation has determined that there was insufficient clamping force on the inner race of the pivot bearing. This allowed the loads encountered during normal operation to be borne by an area of the pivot that was not intended to carry these loads.

The Hastings Deering access system stair pivot joint on the above listed machines requires a modification to ensure the loads in the pivot area are distributed correctly.

## Recommended Interim Actions

- Immediately conduct a visual inspection in the area of the access system pivot point, for cracking around the stairway pivot point flanges.
- If no cracks are found perform the Permanent Corrective action listed below at the next scheduled maintenance interval. Continue to conduct visual inspections at 250 hour intervals, until the Permanent Corrective action has been performed.
- If cracks are found, immediately tag-out the stairway in accordance with site procedures and contact your Mining Support Representative for the re-work procedure required to repair the stairway pivot joint. The permanent corrective action below will form part of the repair instructions.

## Permanent Corrective Actions

1. Order four shims Hastings Deering part number A244601.
2. Insert one shim between the stair flange inner surface and the bearing outer surface on both sides of the pivot point mount and for both pivot points (refer figure 3 on following page)
3. Re-torque bolted joint to 120Nm  $\pm$ 20Nm

**Do not operate the machine until any defects identified in this inspection task are corrected.**

# General Equipment Safety Bulletin

Technical Support Department



Figure 3

### Contact Details:

If further information is required in regard to this bulletin, contact your nearest Hastings Deering Business Centre on 131 228 and ask to speak to your Mining Support Representative.

*This bulletin is to inform you of the recommendations of the supplier in respect of issues dealt with in the bulletin and should not be used as specific advice in respect of any particular events. Advice from a qualified repairer should be sought in respect of any particular events and Hastings Deering (Australia) Limited accepts no responsibility for any loss or damage occasioned by a party using this general bulletin.*