

Technical Bulletin

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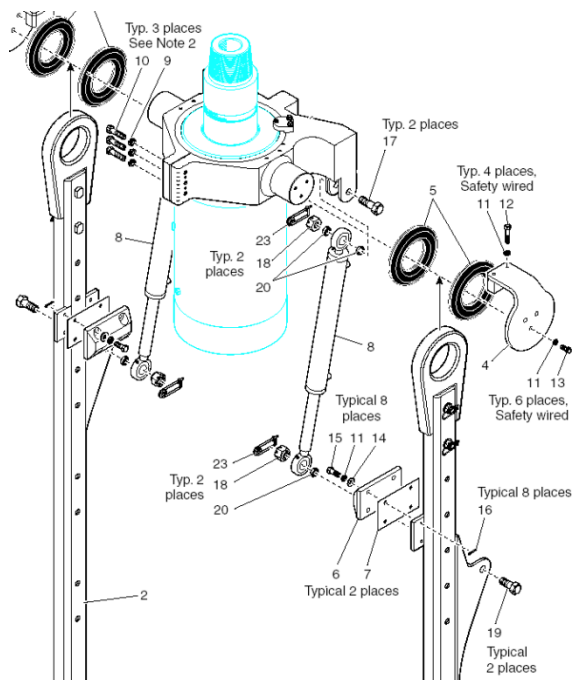
Description: Installation and Maintenance of CDS™ Link Tilt Cylinders



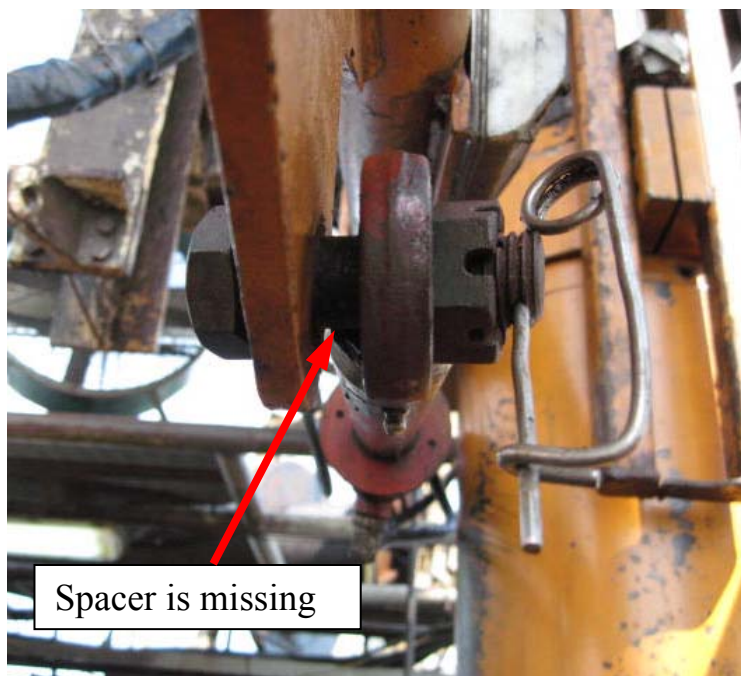
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BACKGROUND INFORMATION:

A dropped object incident occurred where a piece of the rod end bearing on a TESCO Casing Drive System™ (CDS™) link tilt fell to the rig floor. The subsequent incident investigation identified improper installation and maintenance to be significant contributors to the incident. Specifically, the rod end spacers (items 20 in Figure 1a) that are required between the cylinder rod eyes and the link tilt side plates were not installed, and adequate application of grease to the rod ends was not being performed. It was found that the maintenance manual for the CDS™ system does not specifically call out periodic greasing and inspection of the link tilt cylinder rod end bearing. Figure 1a shows the CORRECT installation with rod end spacers (items 20); Figure 1b shows the INCORRECT installation without spacers.



(a)



(b)

Figure 1 – (a) CORRECT installation, (b) INCORRECT installation – spacer is missing

AFFECTED PRODUCT:

All TESCO Casing Drive Systems™ incorporating link tilt systems.

ACTION REQUIRED:

1. Please obtain a copy of the current CDS™ Maintenance Guide (PN 883004 Revision 3 or greater) and a copy of the current CDS™ Pre-Job Checklist (PN 881015 Revision 2 or greater) from your local TESCO representative. This manual is available on TESCO's Intranet within the Equipment Document section.

2. Complete an inspection of the link tilt system. Ensure that rod end spacers are installed at each of the cylinder rod ends as described above and as shown in Figure 1a. Visually inspect equipment for signs of impact damage, and check for excessive play in rod ends. Rod ends with more than 1/32" of free play in any direction are considered worn beyond service limits and should be replaced.

Contact your local TESCO Parts and Service Center for further information regarding this bulletin and or supply of affected components noted above.