

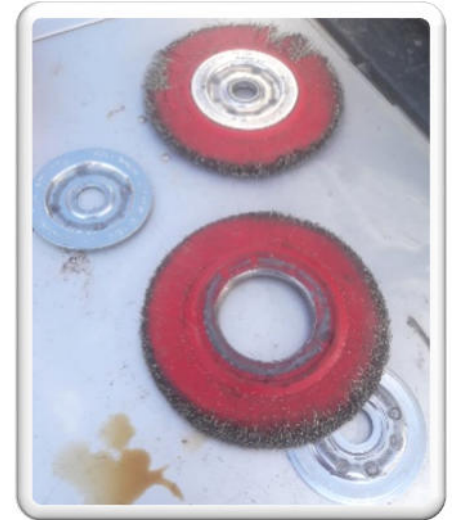


**OBJECT: DEFECTIVE CIRCULAR BRUSHES**

### DESCRIPTION

During the course of a project, some Near Misses were notified regarding the abnormal rupture of circular brushes used for grinding activities. The brushes used belong to the Lessman brand with lot n. P148987.

They present a defect in the central part of the disc, when used it comes off (see image on the side). Of 100 purchased, 20 were tested and in one day 3 were damaged the first time they were used.



### CONSEQUENCES

- Stop the grinding activities and start the investigation process;
- No worker was injured; it is however clear the high potential of the worst possible scenario of such near misses.

### CAUSES

- Poor quality brushes lot.

### CONSIDERATIONS

- Lessman discs have a maximum rpm of 9000 RPM and are manufactured in Germany;
- The discs are marked "EN 1083-2", the standard that specifies the safety requirements for brushes;
- Grinders work at an RPM always lower than the maximum allowed;
- The supervisors confirm that the operators use the grinders correctly, and that the disks are not used improperly.

### CORRECTIVE ACTIONS

- Notification of the incident to the purchasing department of the head office;
- Discs from other brands were purchased and, after being tested, they were considered more efficient;
- Promptly report to the headquarters any repeated breakages / problems with the disks to allow the sharing of critical issues on a global level and implement the necessary corrective actions.
- During the purchase:
  - check the nominal speed of the grinders used in the project;
  - check the rated speed of the disks;
  - Check the expiration date of the disks;
  - Check the type of disk;
  - Test the disks in the field.

Circular brushes  
circolare



### RECEPTION BY THE PROJECT

WHICH ACTIONS IDENTIFIED TO BE IMPLEMENTED IN THE PROJECT:

Project Manager:

Signature:

HSE Project Manager:

Signature: