



PREPARED BY: Corporate QHSE Dept.

N° 06/2019 Date: June 2019

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

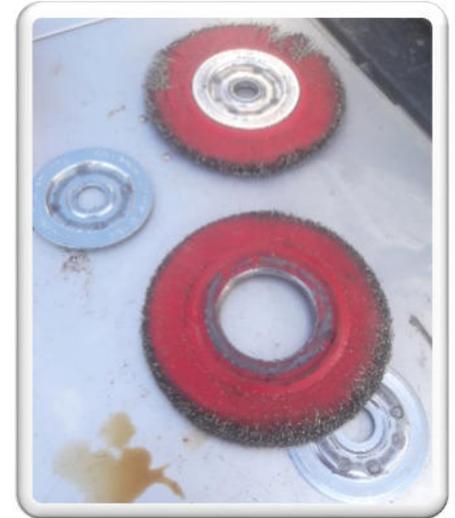
- Poor quality brushes lot.

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: