NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Committee

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414. Huss Topple Tower cracking

A UK registered inspection body has reported serious defects on a Huss Topple Tower ride. The device is approximately 15m in height with a circular, rotating gondola comprised of 40 outward facing seats. When the gondola reaches its maximum height the tower 'topples' or pivots through an angle of 55 degrees. The pivoting action is controlled by two hydraulic cylinders attached to the mast pivot block.
While undertaking dismantling and appraisal of the Topple Tower serious defects were found to the mast pivot block stub axle (hydraulic cylinder side) (See Fig. 1)
Initial visual inspection indicated cracking to the circumferential weld attaching the stub axle to the pivot block (See Figs. 2 and 3). Subsequent NDT (MPI) revealed two cracks, 1x250mm and 1x300mm (See Figs. 4 and 5).
A repair procedure and NDT schedule is available from Huss.