

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Committee

TECHNICAL BULLETIN — JUNE 2008

341. Satori Techno Jump

We have been informed by Leisure Technical Consultants Ltd. of cracking on the SARTORI techno jump. The two areas of cracking are detailed below.

1. The radial arms.

The defects are located on the underside of the radial arms adjacent to the lifting cylinder attached damper unit. A block is welded to the radial arm that makes contact with the damper; the defects are located on the block to arm weldments. A modified block design has been supplied by SARTORI that has been subjected to a design review by ACG Engineering Ltd. This area is subjected to numerous stress reversals during one ride cycle and therefore needs regular monitoring.



1.1 Location of defects in the radial arms.

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Mr. John Green, Mr. Phil Mitchell, Mr. Ron Dale, Mr. Mark Wolstenholme, Mr. Graham Dockerty & Mr. David Inman
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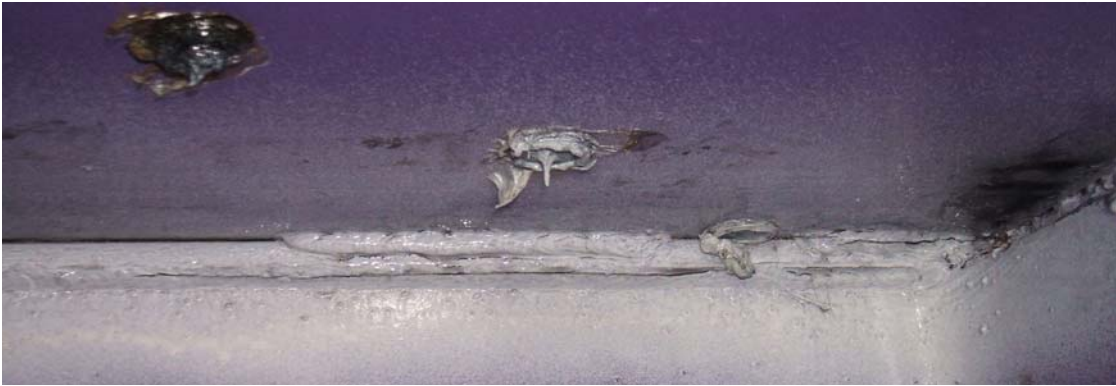
1.2 Typical example of a defect in the affected area.

2. The centre trailer structure.

The cracking has occurred underneath the slewing ring bearing as shown below. Sartori have been informed about the defect for which they provided a repair scheme. However, the cracking re-appeared within one season. It is considered necessary that an inspection of this area is included in the annual in-service inspection and the controller should also ensure that the trailer structure is included in the documented periodic checks.



2. 1Location of cracking under the slewing ring.



2.2 Detail of area of cracking under the slew ring.