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Sartori Runaway Train/Big Apple roller coaster braking system defects

A UK registered inspection body has reported that an inspection of a Sartori Runaway Train roller coaster (a derivative of the Big Apple type of coaster) revealed defects to the station brake shoe pivots.

The station brake is a simple 'pinch' brake attached to the station track section with a pivot block consisting of a central pin and two outer pins to hold the brake shoes parallel (See Fig1).

The pins appear to be an interference fit in the pivot block and are welded circumferentially to the lower side of the block (See Fig 2). By removing the accumulated grease and observing the pivot block from the underside, defects (cracking) to the weldments can be easily found (See Figs 3 and 4).

In extreme cases the grease will escape from the 'crack' due to wear between the pin and the block.

Committee Members: Mr. D Dadswell (Chairman), Mr. A Mellor (Secretary), Mr. P Smith, Mr. J Green, Mr. D Cox, Mr. M Thirkettle, Mr. I Davies, Mr. J Shilling & Mr. D Inman

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▲ Figure 1



▲ Figure 2



▲ Figure 3



▲ Figure 4

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