

NAFLIC

National Association For Leisure Industry Certification

Standards & Related Documents Committee

TECHNICAL BULLETIN — June 2016

409. Zamperla Watermania main drive pinion failure

We have received a report from a UK registered inspection body that a main drive pinion on a Zamperla Watermania ride failed within two months of operation. The pinion was subjected to hardness testing and it was found to have not been surface hardened by the manufacturer. A new pinion was obtained from the manufacture but this also failed within two months of operation owing to numerous areas of cracking.

It is not felt that this is a safety critical failure but controllers should bear in mind that these parts are not only found on this type of ride but on others too, where it could also be significant. The original manufacturer's default item was replaced with a hardened piece that also failed. There is also the possibility of sudden stop as a result of this failure.

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



Failed original pinions



Failed replacement pinions

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