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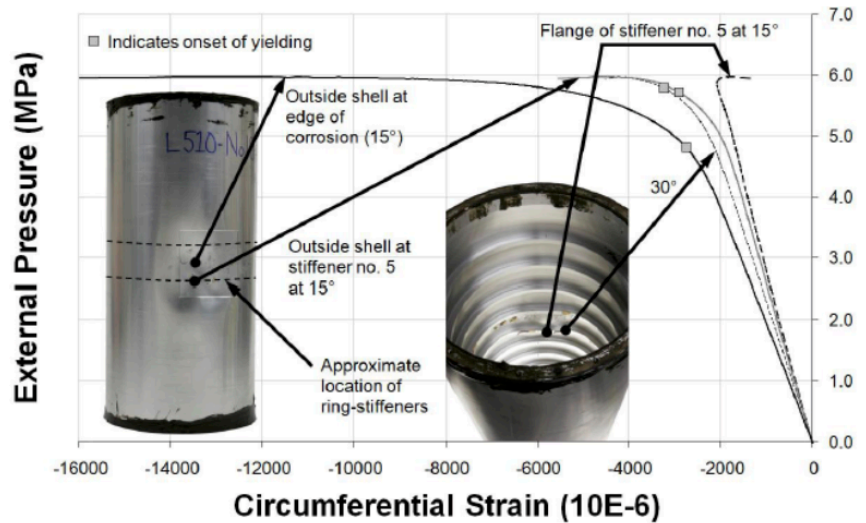


Figure 10: Experimental result of cylinder with corrosion patch

From: MacKay, J. R., Smith, M. J., van Keulen, F., Bosman, T. N., and Pegg, N. G., "Experimental Investigation of the Strength and Stability of Submarine Pressure Hulls With and Without Artificial Corrosion Damage," *Marine Structures*, 23, pp. 339–359, 2010

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Selected Publications:

MacKay, J.R., Smith, M.J., and Pegg, N.G. (2006). Design of pressure hulls using nonlinear finite element analysis.(OMAE2006-92591). In *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering*. Hamburg, Germany: ASME.

MacKay JR (2007) Experimental investigation of the strength of damaged pressure hulls—Phase 1. Defence Research and Development Canada–Atlantic, Technical Memorandum 2006–304

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MacKay, J. R. Jiang, L. Glas, A. H., 2011, “Accuracy of Nonlinear Finite Element Collapse Predictions for Submarine Pressure Hulls With and Without Artificial Corrosion Damage,” *Mar. Struct.*, 24, pp. 292–317.

John R. MacKay, Fred van Keulen and Malcolm J. Smith, “Quantifying the accuracy of numerical collapse predictions for the design of submarine pressure hulls”, *Thin-Walled Structures*, Vol. 49, No. 1, January 2011, pp. 145-156, doi:10.1016/j.tws.2010.08.015

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MacKay, J. R., and van Keulen, F., 2013, “Partial Safety Factor Approach to the Design of Submarine Pressure Hulls Using Nonlinear Finite Element Analysis,” *Finite Elem. Des.*, 65, pp. 1–16