

Accepted Manuscript

Predictions for circular contraction-expansion flows with viscoelastoplastic & thixotropic fluids

J.E. López-Aguilar , M.F. Webster , H.R. Tamaddon-Jahromi , O. Manero

PII: S0377-0257(18)30025-9
DOI: <https://doi.org/10.1016/j.jnnfm.2018.09.001>
Reference: JNNFM 4047



To appear in: *Journal of Non-Newtonian Fluid Mechanics*

Received date: 18 January 2018
Revised date: 4 September 2018
Accepted date: 5 September 2018

Please cite this article as: J.E. López-Aguilar , M.F. Webster , H.R. Tamaddon-Jahromi , O. Manero , Predictions for circular contraction-expansion flows with viscoelastoplastic & thixotropic fluids, *Journal of Non-Newtonian Fluid Mechanics* (2018), doi: <https://doi.org/10.1016/j.jnnfm.2018.09.001>

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HIGHLIGHTS

- Viscoelastoplastic predictions in circular sharp-cornered contraction-expansion flow
- Plastic & viscoelastic regimes analysed under a flow-rate increase protocol
- Highly-dynamic vortex-activity registered, with coexistent lip and corner vortices
- Correlation of vortex-structures with N_l & extensional viscosity trends
- Thixo-viscoelastoplasticity reflects growth of solid-like features and asymmetry

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