

HAAKE CaBER 1 – reproducibility

Newtonian Test fluids E6000 and E40000

Rheology Application Notes

Test fluids

Newtonian Standard fluids
E6000 ($\eta = 6000$ mPas, 20 °C)
E40000 ($\eta = 40000$ mPas, 20 °C)

CaBER test results

	Break up time/ s
E6000 #1	2.08
E6000 #2	2.09
E6000 #3	2.09
E40000 #1	13.4
E40000 #2	13.0

1. CaBER data (break up times) can be measured with high reproducibility
2. Extensional viscosity of Newtonian Standard fluids follows Trouton ratio (= 3x shear viscosity value)

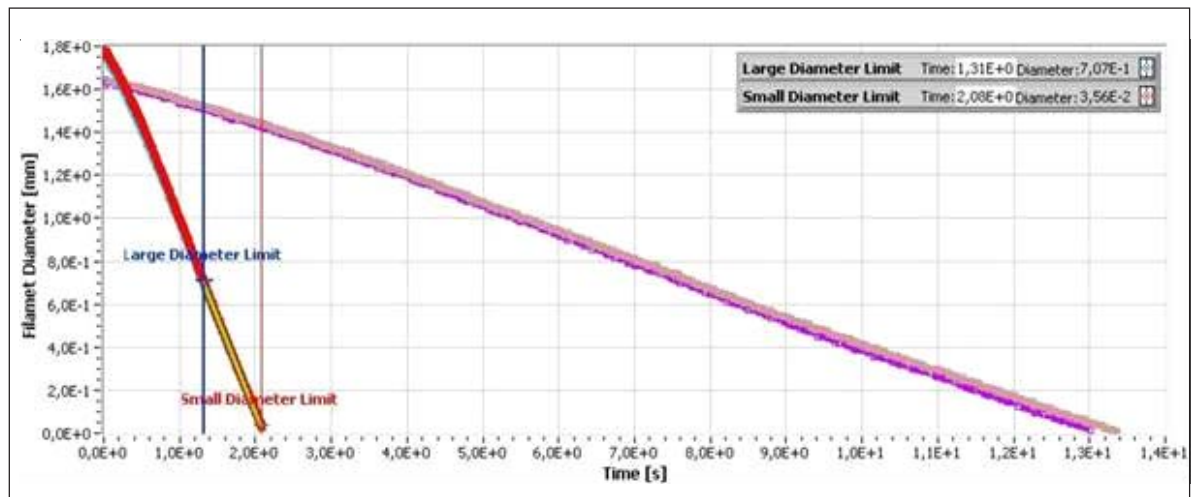


Fig. 1: Diameter as a function of time (break up time) for 2 different Newtonian fluids E6000 and E40000 (multiple measurements with new filling)

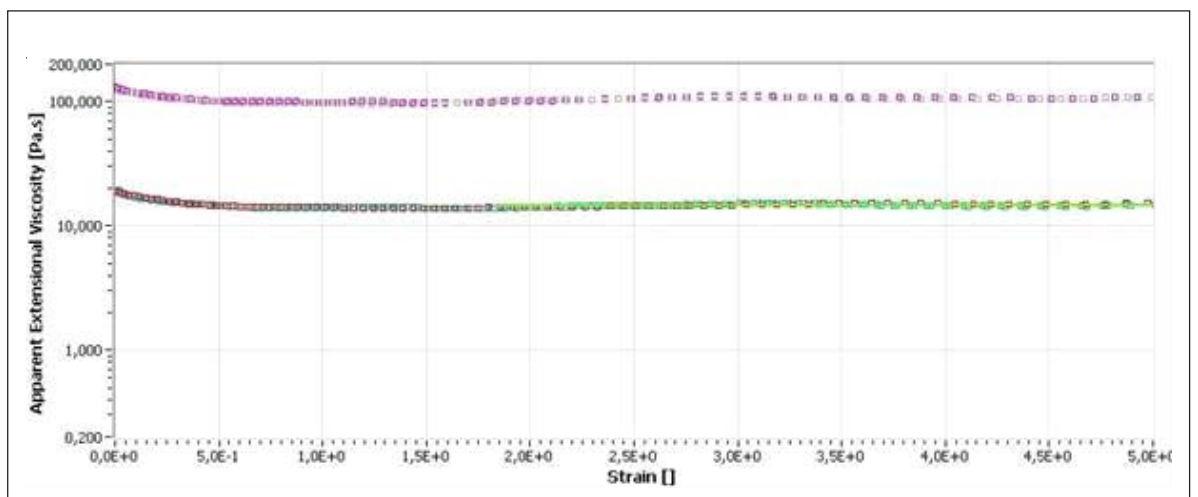


Fig. 2: Extensional viscosity as a function of deformation for 2 different Newtonian fluids (calculated from data shown in fig. 1)

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