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Title: Experimental evaluation and transient simulation of detergent transport in household vertical axis washing machines

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1 **Highlights**

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- Detergent transport in vertical axis washing machines is studied
- A purpose-built test rig was used to gather data following a 2^4 factorial design
- Agitation level and detergent insertion showed to be the most influencing factors
- A semi-empirical model was developed and validated against experimental data

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