

**ANALISA PERBANDINGAN KETEBALAN SHIM TERHADAP PERUBAHAN  
TEKANAN PENGABUTAN NOZZLE ISUZU PANTER TOURING TURBO  
BAHAN BAKAR CAMPURAN POLYPROPYLENE** (Comparisional Analysis  
Ofthickness Shim Towards Changes In Fombing Pressure Nozzle Isuzu Phanter Touring  
Turbo Material Fuelmixture Polyperopylene)

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***ABSTRACT***

at penelitian aims to determine the effect of the thickness of the shim against ppressure andChanges carburetion in Isuzu Panther Nozzle uses fuel solar and Pertamina dex mixed with polypropylene. The method used in this research is mixing fuel from diesel and Pertamina dex mixed with polypropylene, including S 85% (diesel 85%+15% polypropylene, S 75% (75% diesel + polypropylene 25%), PD 85% (Pertamina dex 85% + 15% polypropylene, PD 75% (Pertaminadex 75% + 25% polypropylene), with a variety of thickness nozzle shimof 0.05 mm, 0.10 mm, 0.15 mm, 0.20mm, and 0.25 mm. The results in this study menwave lowest viscosity values in PD 75% (pertamina dex 75% + 25% polypropylene. The best pressure on the shim variation is found in the 0.10 mm thick shim with a pressure of 155,6 Bar located in the mixture PP 15% + S 85% and 0.15 mm thick shim whit a pressure of 168,6 Bar on a PP 25% + S 75% mixture. Thelowest stress is located on the shim with a thickness of 0.05 mm in the mixture of materials burn PD 75% + PP 25% with pressure 123.3 Bar. Results The best fogging is located on the shim with a thickness of 0.10 mm at a mixture of S 85% + PP 15% with an angle of 18.3° and 0.15 mm in S . mixture 75% + PP 25% with a large angle of 18°.

**Key words:** *Fuel, Polypropylene, nozzle,pressure misting,angle fogging, nozzle shim.*