

***MIXED FUEL EFFECT OF POLYPROPYLENE WITH PREMIUM pyrolysis,  
PERTALITE ON EXHAUST EMISSIONS***

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***ABSTRACT***

*This research was conducted to determine the levels of exhaust emissions with premium fuel and pertalite and using variations of fuel mixture results pyrolysis of plastics PP (Polypropylene) 10%, 15%, and 20% by 3000 RPM, 4000 RPM, 5000 RPM, 6000 RPM, 7000 RPM. In this study obtained test exhaust emissions such as CO, CO<sub>2</sub>, and HC is reduced to decline in all variations of fuel mixture results pyrolysis of PP (Polypropylene), exhaust emission levels was lowest for the mixture pertalite + PP 15% with high levels of CO 0,046% vol at 7000 RPM, the lowest CO<sub>2</sub> levels on the mix of premium + PP 15% to the value of 5,3% vol at 3000 RPM, the lowest level in the mixture pertalite + PP 15% HC to the value of 13,666 ppm with 7000 RPM.*

***Keywords:*** Fuel gas emission, RPM, Polypropylene