

Thesis Title The Exhaust Emission Reduction of Two-Stroke Gasoline Engine
by Alternative Fuel Technology

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ABSTRACT

The uncomplete combustion of a two-stroke gasoline engine causes severe air-pollution problem. The reduction of this problem may be done in many ways. But one choice is the use of alternative fuel such as the mixture of gasoline and methanol, or "gasohol", in different proportions. This experimental work involves testing an engine (Kawasaki KH 125-M4) running on this fuel on a Chassis Dynamometer following the ECE.-R40 Riding Mode Measurements were made for CO, HC, CO₂ emission and on engine bench test were carried out to determine performance, deposit, wearing and fuel consumption. The result of this experimental work shows that this alternative fuel can be used to reduce the emissions level from a two-stroke gasoline engine.