UNIVERSITI TEKNOLOGI MARA

INVESTIGATION ON DIFFERENT TEMPERATURE OF STEAM ON A STEAM POWERED MOTOR.

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ABSTRACT

In a steam engine , hot steam , usually supplied by a boiler , expands under pressure and a part of the heat energy is converted into mechanical work. However , the efficiency of the steam engine may reduce due to the different load weight. In this study , different temperature of steam relative to different load weight and different engine motor speed on a steam powered motor are analysed. Moreover , the efficiency of the motor is calculated. The temperature of steam is set to be at range 30°C to 150°C with interval of 5°C and the load weight ranging of from 0 to 50 gram with interval of 10 gram. As a result , the efficiency of steam motor may increase along with higher temperature and lower load weight.

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