Abstract
This paper describes a study that compared friction power from a 97 cc small single cylinder gasoline engine using three differences lubricant oil grade (API service). The study is based on the engine test bed results and Pertamina lubricant oil. The test results have shown that the higher oil grade produce slightly lower torque and friction power than the smaller one. For the same oil grade the friction power decrease with increasing engine temperature, but the friction power increase with increasing engine speed.

Kata kunci: motor bensin, motoring, daya gesek, minyak pelumas, Oil grade.