

FINAL YEAR PROJECT REPORT
DIPLOMA OF ENGINEERING (MECHANICAL)



FACULTY OF MECHANICAL ENGINEERING
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SHAH ALAM

PERFORMANCE TESTING OF RECIPROCATING
COMPRESSOR

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OCTOBER 2001

ACKNOWLEDGEMENT

In the name of ALLAH SWT, the most gracious and merciful. We praise Him and we seek His noble Prophet SAW. We thank ALLAH SWT who has enabled us to complete this final project. We would like to express our thanks to our parents for their support and guidance.

Very special thank to our Project Advisor Encik Nazri bin Mohamad for his guidance and assistance in completing this final project. We also grateful to staff laboratory member, Encik Sufi for his assistance in carrying out this project.

A special thanks to our friends for their encouragement and patience that made our study and project possible. Finally, it is our pleasure to thanks all that have involved directly or indirectly in this project.

"May ALLAH SWT bless you All"

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Chapter 1

Introduction

Compressor is one of the most important mechanical equipment. The function of compressor is to compress gases to a higher pressure. By virtue of this compression, the pressure density and temperature of the compressed gas will increase.

The purpose of compressing gases can generally be divided as follows:

- a) Air is compressed to a higher pressure and contained in tank for utilizing use. In workshop, this high-pressure air is use to clean equipment and objects to in flare tires and equipment, which uses high-pressure air is power source such as screwdriver. High-pressure air is also use to operate pneumatic control system.
- b) Process requirement in a cycle where gas need to be compressed. One of such example is where refrigerant need to be compressed in a refrigeration cycle.
- c) Transportation of gases in a pipeline requires them to be compressed to a high pressure. As an example, Petronas Gas Sdn. Bhd. delivers gas from Kertih to various TNB power stations all over Peninsular Malaysia. As such compression facilities are installed in Kerteh and Segamat.

To the familiar with different ranges, categories and compressors, literature search and Internet achieve this.