

DESIGN AND OPERATING CHARACTERISTICS  
OF AN AUTOMATIC TRANSMISSION SYSTEM

PROJECT REPORT SUBMITTED BY:

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## SUMMARY

The purpose of this project was, first to conduct an investigation into the design, construction and operating characteristics of various automatic transmission systems for heavy duty machinery and to acquire good knowledge of the above characteristics. Then, to describe these characteristics with reference to drawings and to prepare preventive maintenance schemes.

After conducting all the necessary investigations and collecting information from manuals and books, the problem was approached in the following way:

An introduction about automatic transmissions in general and their advantages was made.

In chapter 1, the principal of operation of the most common automatic transmissions was briefly described.

In chapter 2, a representative automatic transmission system for heavy duty machinery was described in full detail.

In chapter 3, reference was made to other automatic transmission systems.

In chapter 4, preventive maintenance schemes for the described systems were presented.

The conclusions that may be drawn from this project are :

After the detailed study of the various types of automatic transmission systems it has become obvious that such a system is complicated, as well as sophisticated as far as its design, construction and operation are concerned. And although an automatic transmission system is much more complicated than a manual one, when used on any kind of machinery, it makes its operation much easier than the operation of machinery with manual transmission systems.

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