

PREFACE

This thesis is one of the fruits of my labour under the supervision of Prof. Pranab Ghosh in the Department of Chemistry, University of North Bengal, during the period of December 2013 to May 2018. The basis for this research originally stemmed from my passion for developing multifunctional lube oil additives. As the world moves into the age of engines performing under stringent working conditions, there will be a greater need to develop additives that can support such operations. Therefore, it was my passion to develop additives that can work under severe conditions also keeping in mind the growing environmental concerns related to the additives.

Although nobody can become an expert in such a short period of time, it is no exaggeration to state that my personal learning curve, which grew like a logarithmic function, has reached a considerable level after the research. I am grateful to all those people who have contributed in this study.

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