

REDUCING DEFECT ON BOTTLING PROCESS OF MESRAN SUPER SAE
20W/50 USING SEVEN-STEP METHOD
(Case Study In PT PERTAMINA Lubricating Unit Of Cilacap)

THESIS

Submitted as Partial Fulfill of the Requirements
to Obtain the Bachelor of International
Industrial Engineering Degree



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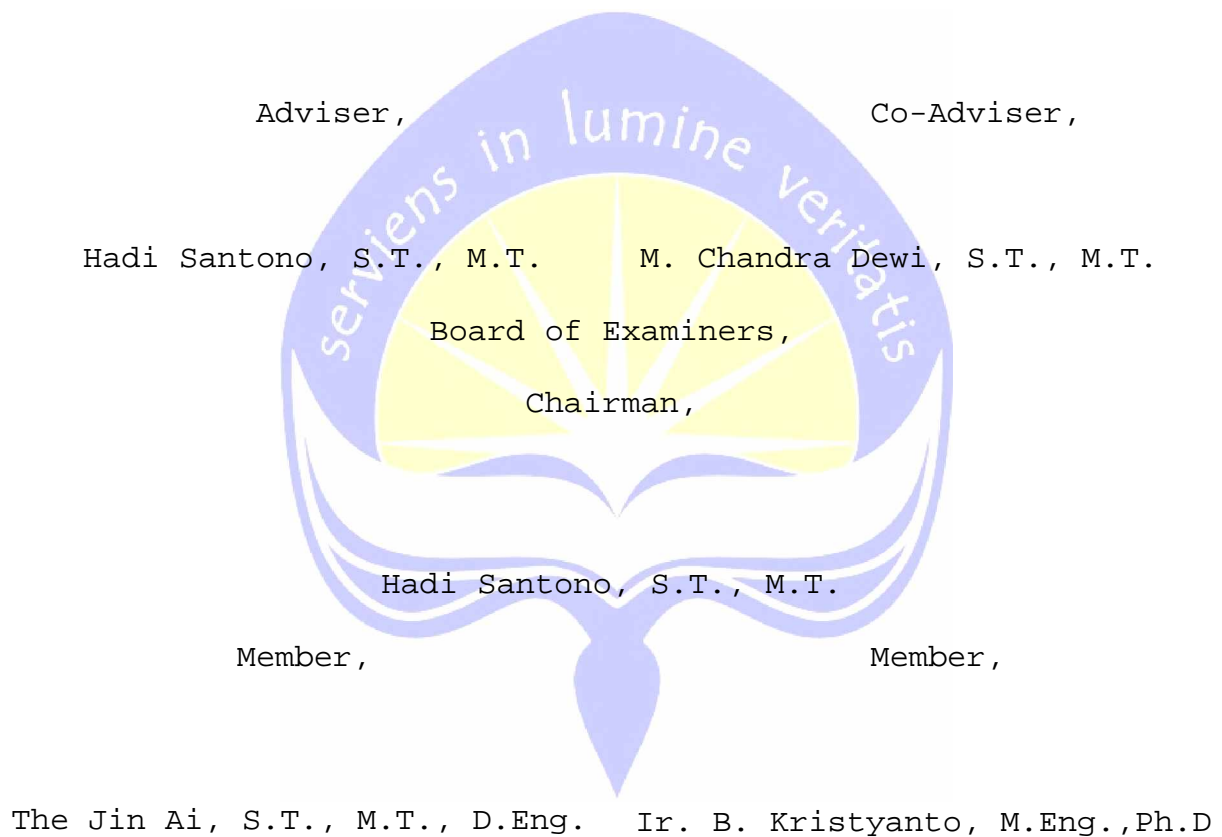
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INTERNATIONAL INDUSTRIAL ENGINEERING PROGRAM
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On

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Has been Examined and Approved
On December, 2009



Yogyakarta, December, 2009
Dean of Faculty of Industrial Technology
Universitas Atma Jaya Yogyakarta

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DEDICATION

Dedicated to :

My God
Always Blessed me and give me Power every time

My family in Cilacap
Beloved Mother, Beloved Father, and My Sister
Always Support and Prayer me

My Lovely Sweetheart "Fifi"
Thanks for leaving me when I really need your support
you broke my heart
you always make me sad
but I will love you forever and ever

My Best Teacher Mr. Hadi Santono, S.T., M.T.
And Mrs. M. Chandra Dewi, S.T., M.T.
Always give me direction and advice in Final Task

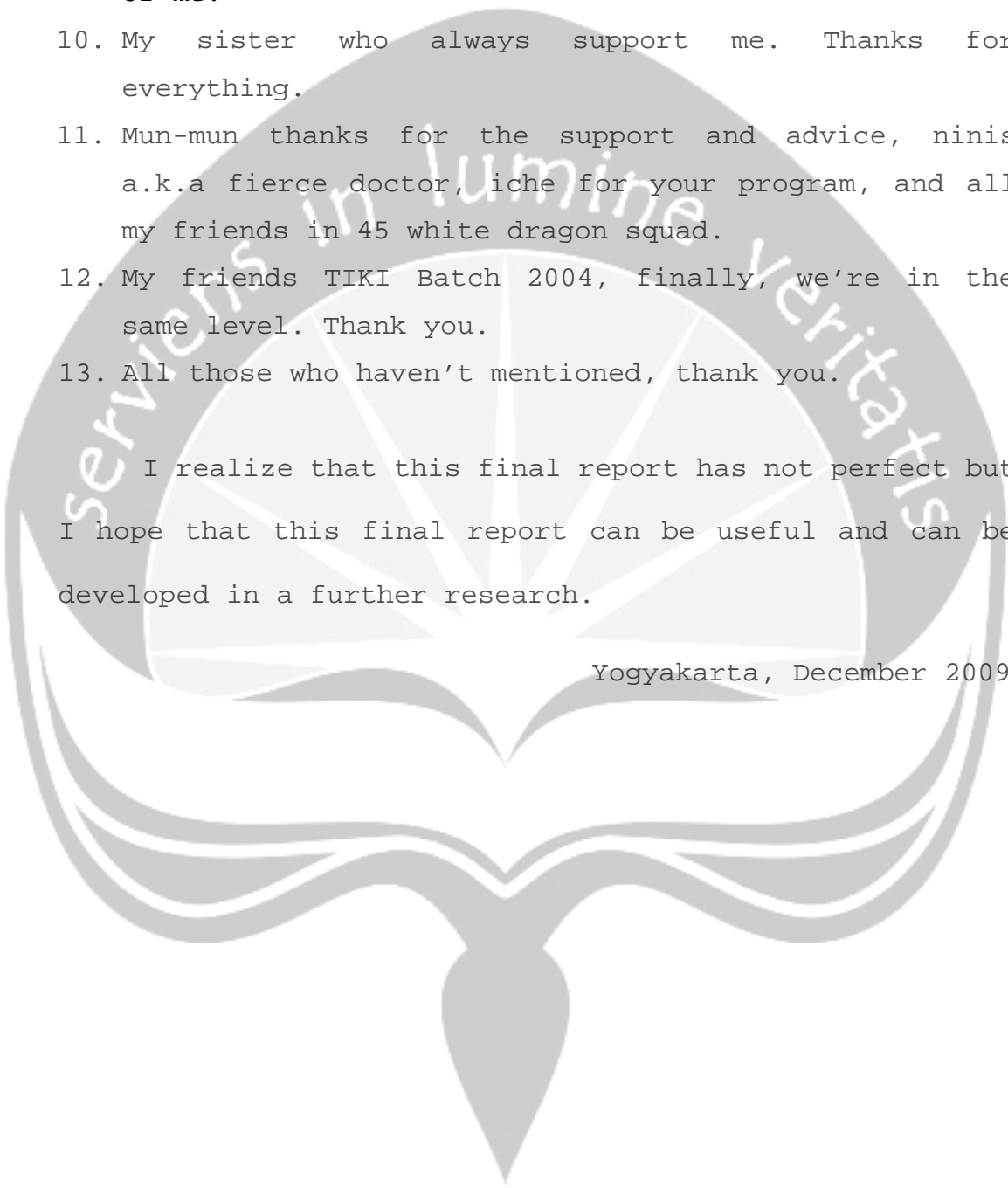
And all of my friend
Always give me time to play everything,

FOREWORD

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I realize that this final report has not perfect but I hope that this final report can be useful and can be developed in a further research.

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ABSTRACT

PT PERTAMINA (PERSERO) Lubricating Unit of Cilacap produces almost the PERTAMINA's lubricant. The products cover the requirement of customer need from automotive and industrial. The main process is filling lubricating oil to the bottle and its process is in Lithos Department. By the observation the writer identifies the defects, they are test induction sealer, no aluminum foil, unsticky aluminum foil, damaged cap, bottle & cap not equal, oblique cap, broken bridge cap, and empty bottle & micro hole. Because of product competitions, the defects become the company concern.

This research uses the Seven-Step Method based to reduce the defects. The improvement suggestion covers man, material, inventory, and material inspection.

By the end of research, the most significant defect product of lubricant in PT PERTAMINA (PERSERO) Lubricating Unit of Cilacap is no aluminum foil nonconformity and oblique cap nonconformity. The sources or factors that cause the defect are materials and man. The implementation conducted in August, 2009 and the result is decreasing the nonconformities of defect product.