

## ABSTRAK

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Program Studi	:	Teknik Industri
Judul Laporan Skripsi	:	Perbaikan Pencapaian Produksi Mesin Pembuat Botol Plastik Dengan Metode Tpm Di Pt, Indo Tirta Abadi
Pembimbing	:	Selamet Riadi, ST, MT.

Penelitian ini dilakukan karena sering terjadi masalah pada mesin kompresor WH40N yang berkaitan dengan umur / *life time sparepart*. Hal ini tentu juga berpengaruh terhadap kinerja dan produktifitas mesin *blowing* botol plastik tersebut. Dari penelitian dan analisa yang dilakukan terhadap permasalahan yang ada dengan menggunakan metode TPM melalui perhitungan OEE, *Six big losses* dan FMEA dapat diketahui bahwa terjadi penurunan hasil *pump up test* kompresor WH40N di PT.INDO TIRTA ABADI. Hal ini dipengaruhi oleh kondisi temperatur semua *stage* tinggi. Pada proses analisa secara teoritis dapat diketahui bahwa terjadi kebocoran *tube cooling tower*, kerusakan tersebut meliputi; *tube* yang bocor karena korosi, pendinginan kurang karena *tube* bagian luar tertutup kerak silica. Penyebab kerusakan bisa dari minimnya perawatan khusus seperti *preventive* terhadap *cooling tower* dan jalur *cooling* kompresor tidak ada. Pada akhir penelitian telah dapat disimpulkan, agar dapat meminimalisir munculnya permasalahan terkait temperatur semua *stage* tinggi, maka perlu dilakukan penggantian *cooling tower*, *preventive cooling tower* dan jalur *cooling* kompresor.

Kata kunci : Kompresor, TPM, OEE, *Six big losses*, FMEA, *cooling tower*, *preventive*, jalur *cooling* kompresor.

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Name	:	Nurhadi Budi Santoso Yohanes
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Study Program	:	Teknik Industri
Title Internship Report	:	<i>Improvement of Production Achievement of Plastic Bottle Making Machines Using the Tpm Method at PT. Indo Tirta Abadi</i>
Counsellor	:	Selamet Riadi, ST, MT.

*This research was conducted because problems often occur in the WH40N compressor engine which are related to the life time of the spare parts. This of course also affects the performance and productivity of the plastic bottle blowing machine. From the research and analysis carried out on existing problems using the TPM method by calculating OEE, Six big losses and FMEA, it can be seen that there has been a decrease in the results of the WH40N compressor pump up test at PT.INDO TIRTA ABADI. This is influenced by the high temperature conditions of all stages. In the theoretical analysis process it can be seen that there is a leak in the cooling tower tube, the damage includes; leaky tube due to corrosion, less cooling because the outer tube is covered with silica crust. The cause of the damage can be from the lack of special maintenance such as preventive cooling towers and no cooling compressor lines. At the end of the study it was concluded, in order to minimize the emergence of problems related to high temperatures at all stages, it is necessary to replace cooling towers, preventive cooling towers and compressor cooling lines.*

*Keywords : Compressor, TPM, OEE, Six big losses, FMEA, cooling tower, preventive, compressor cooling line.*