

**PENERAPAN TOTAL PRODUCTIVITY MAINTENANCE  
MENGUNAKAN OVERALL EQUIPMENT EFFECTIVENESS DAN  
SIX BIG LOSSES DI PT ADI SATRIA ABADI**

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**ABSTRAK**

PT Adi Satria Abadi (ASA) merupakan salah satu pabrik industri yang bergerak dalam bidang pengolahan kulit mentah menjadi kulit yang nantinya siap di proses kembali menjadi barang jadi. PT. Adi Satria Abadi sering mengalami permasalahan pada mesin-mesin produksi terutama pada bagian shaving dimana mesin sering mengalami *breakdown* sebesar 30%, sehingga sering adanya perbaikan pada bagian shaving. Hal tersebut dapat mengakibatkan produk yang diprosuksi tidak sesuai dengan kriteria sehingga pengiriman kepada konsumen tidak dapat tepat waktu. Oleh karena itu dengan adanya masalah tersebut pengukuran kinerja mesin sangat penting bagi PT. Adi Satria Abadi (ASA).

*Total Productive Maintenance* (TPM) adalah suatu pendekatan yang dilakukan oleh semua lini sebagai usaha untuk memaksimalkan efisiensi dan efektivitas peralatan atau mesin secara keseluruan. TPM dapat diukur dengan menggunakan perhitungan *Overall Equipment Effectiveness* (OEE) sebagai alat ukur performa dari peralatan atau mesin. Pada penelitian ini dilakukan perhitungan OEE pada mesin *Alleti 1300* di PT. Adi Satria Abadi (ASA). Nilai rata-rata OEE yang didapat masih dibawah nilai standar *world class* yaitu 78,19% dimana standar nilai *world class* sebesar 85%. Rendahnya nilai OEE diakibatkan adanya faktor yang belum mencapai nilai standar yaitu faktor dari *performance rate*. Nilai *performance rate* yang dihasilkan belum mencapai standar *world class* dan nilai *performance rate* lebih rendah dibandingkan dengan faktor lainnya yaitu 86,07 %. Sedangkan dari hasil *losses* yang menyebabkan rendahnya nilai OEE yaitu tingginya nilai persentase *breakdown loss* sebesar 42%, *reduced speed loss* sebesar 20%, dan *scrap/yield loss* sebesar 19%.

Kata Kunci : *Total Productive Maintenance* (TPM), *Overall Equipment Effectiveness* (OEE), *Six Big Losses*

# **APPLICATION OF TOTAL PRODUCTIVITY MAINTENANCE USING OVERALL EQUIPMENT EFFECTIVENESS AND SIX BIG LOSSES IN PT ADI SATRIA ABADI**

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## **ABSTRACT**

*PT Adi Satria Abadi (ASA) is one of the industrial factories engaged in the processing of raw leather into leather which will be ready to be processed back into finished goods. PT. Adi Satria Abadi often experiences problems in production machines, especially in the shaving section where the machine often experiences a breakdown of 30%, so there is often an improvement in the shaving section. This can result in the product being produced not in accordance with the criteria so that delivery to consumers cannot be on time. Therefore, with this problem the measurement of engine performance is very important for PT. Adi Satria Abadi (ASA).*

*Total Productive Maintenance (TPM) is an approach carried out by all lines in an effort to maximize the efficiency and effectiveness of the equipment or machinery as a whole. TPM can be measured using the Overall Equipment Effectiveness (OEE) calculation as a performance measurement tool for equipment or machinery. In this study OEE calculations were carried out on the Alleti 1300 engine at PT. Adi Satria Abadi (ASA). The average OEE value obtained is still below the world class standard value of 78.19% where the world class standard value is 85%. The low OEE value is due to factors that have not yet reached the standard value, which is a factor of performance rate. The value of the resulting performance rate has not yet reached the world class standard and the value of the performance rate is lower compared to other factors that is 86.07%. While the results of losses that cause a low OEE value are the high value of breakdown loss by 42%, reduced speed loss by 20%, and scrap / yield loss by 19%.*

*Keywords:* Total Productive Maintenance (TPM), Overall Equipment Effectiveness (OEE), Six Big Losses

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