

Analisis rantai pasokan bahan bakar minyak dalam transportasi maritim (studi kasus ABC carrier) = Analysis of oil supply chain in maritime transportation (case study ABC carrier)

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Abstrak

[ABSTRAK]

Penelitian ini membahas mengenai proses pengiriman bahan bakar minyak yang dilakukan oleh ABC Carrier. Masalah pengiriman bahan bakar minyak ini dikaji karena masih terdapat beberapa permasalahan dalam proses pengiriman bahan bakar minyak yang menghambat jaringan rantai pasokan bahan bakar minyak di Indonesia. Dengan semakin meningkatnya konsumsi bahan bakar minyak di Indonesia setiap tahunnya, membuat bahan bakar minyak membutuhkan penanganan lebih agar kinerja rantai pasokan bahan bakar minyak dapat berjalan efektif dan efisien. Untuk dapat menangani permasalahan tersebut, dilakukan penelitian untuk menganalisa bagaimana proses pengiriman bahan bakar minyak pada ABC Carrier dan mencari alternatif solusi proses pengiriman lain yang mampu meningkatkan efisiensi rantai pasokan bahan bakar minyak. Penelitian dilakukan dengan metode simulasi event diskrit menggunakan perangkat lunak Arena versi 14 oleh Rockwell Automation®. Parameter utama yang digunakan dalam penelitian ini adalah waktu pengiriman (lead time), total biaya pengiriman dan keuntungan (profit) yang didapatkan oleh ABC Carrier. Dengan dua skenario usulan yaitu skenario 1 (penambahan resource berupa SME) dan skenario 2 (pelatihan dan sertifikasi) maka ditemukan bahwa skenario 1 dengan penambahan resource berupa SME, memberikan waktu pengiriman (lead time) yang paling rendah dengan keuntungan yang tinggi.

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<i>ABSTRACT</i>

;This study discusses the fuel delivery process conducted by ABC Carrier. Fuel delivery problem is studied because there are still some problems in the process of fuel delivery, which inhibits the supply chain network of fuel in Indonesia. Along with the increased consumption of fuel in Indonesia, have made fuel requires a special attention so that supply chain performance of fuel can run effectively and efficiently. To be able to deal with these problems, the research is carried out to analyze the fuel delivery process at ABC Carrier and seek the alternative solutions that can improve the efficiency of the fuel delivery process. This research conducted using discrete event simulation using Arena simulation software version 14 by Rockwell Automation®. The main parameters used in this study are lead time, total shipping costs and profits (profit) obtained by ABC Carrier. Among two alternatives proposed, scenario 1 (additional resource in the form of SME) and scenario 2 (training and certification) it was found that scenario 1 with the addition of resources such as SME, providing lower lead time with higher profits., This study discusses the fuel delivery process conducted by ABC Carrier. Fuel delivery problem is studied because there are still some problems in the process of fuel delivery, which inhibits the supply chain network of fuel in Indonesia. Along

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