

ABSTRACT

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Efficiency Analysis of Mitsubishi Turbocharger Type TD 13 on the Guascor F180 Diesel Generator Engine at PT. Tekno Marindo Utama

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Turbocharger is a centrifugal compressor that gets power from a turbine whose power source comes from exhaust gas or exhaust manifold. By collecting secondary data that has been previously tested for analysis, and processed into a graph to see the differences produced by the use of a turbocharger. From the results of the comparison of data from the Guascor F180 Series Diesel Generator Engine that uses a Mitsubishi TD 13 turbocharger at 1800 rpm rotation, it is obtained that the output power is much greater than the engine without a turbocharger with a percentage increase in power increase of 30.90%. Then there is a decrease of 24% for specific fuel consumption (sfc), which means that the engine with a turbocharger is more efficient in fuel consumption when compared to an engine without a turbocharger.

Bibliography (2004 - 2021)