ABSTRACT

Characterization of Mechanical Properties and Micro Structural of Low Steel Carbon For Cane Cutter Blade on PT Gunung Madu Plantation

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Cane cutter blade (blade chopper cane), which is a tool used for chopping cane. This tool acts as a cane crusher, made of low steel carbon. Constraints that occur on Cane Cutter Blade is a high wear rate, thus disrupting the productivity of the industry.

The company handles this problem by providing a coating on a cane cutter blade, only in this way is still considered very less effective at. low steel carbon relatively low carbon steel

Characterization of the mechanical properties and the microstructure of low steel carbon with hardness testing and tensile testing, while the micro picture of choice to see the results of the condition of the microstructure after a heat treatment with water as cooling media.

Key words: characterization of the mechanical properties, microstructure, cane cutter blade, low steel carbol, tensile testing, hardness testing, heat treatment.