

Pengaruh Waktu *Steaming* Terhadap Kehilangan Minyak Kelapa Sawit Pada Air Kondensat Dengan Sistem Tiga Puncak (*Triple Peak*)

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ABSTRAK

Penelitian ini telah selesai dilaksanakan dari April-Juni 2015 di pabrik pengolahan kelapa sawit pt. tidar kerinci agung – lubuk besar kab.dharmasraya dan laboratorium pt. tidar kerinci agung. Penelitian ini bertujuan untuk mengetahui cara penekanan kehilangan minyak dalam proses pengolahan kelapa sawit pada proses *steaming* dengan mengoptimalkan waktu yang digunakan selama proses *steaming* berlangsung dan mengetahui pengaruh waktu *steaming* terhadap kehilangan minyak pada air kondensat dengan sistem *steaming* tiga puncak. Rancangan yang digunakan dalam penelitian ini adalah Rancangan Acak Lengkap (RAL) dengan perlakuan lama waktu *steaming*, yang terdiri dari 6 perlakuan dan 3 kaali ulangan sebagai berikut A (waktu *steaming* 70 menit), B (waktu *steaming* 80 menit), C (waktu *steaming* 90 menit), D (waktu *steaming* 100), E (waktu *steaming* 110), F (waktu *steaming* 120). Data pengamatan di analisa dengan uji F dan jika berbeda nyata dilanjutkan dengan uji Duncan's New Multiple Range Test (DNMRT) pada taraf 5%. Lama waktu *steaming* terhadap kehilangan minyak kelapa sawit pada air kondensat dengan sistem tiga puncak berpengaruh nyata terhadap kehilangan minyak 0,72%, Asam lemak bebas 3,59%, Kadar Air 0,35%, kadar kotoran 0,03%, bilangan iod 14,26 g Iod/100g, cemaran logam Fe 6,03 mg/kg, cemaran logam Cu 0,50 mg/kg.

Kata kunci - air kondensat, cpo, losess minyak, *steaming*, tripple peak

Effect of Steaming Time to the Loss of Palm Oil in Condensate Water with Triple Peak System

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ABSTRACT

This research has been completed from April to June 2015 in palm oil processing factory and Laboratory at PT. Tidar Kerinci Agung - Lubuk Besar, Dharmasraya regency. This research aims to determine the way of oil loss emphasis in the processing of oil palm in the steaming process by optimizing the time which is spent during the steaming process and determine the effect of steaming time to the loss of oil in the condensate water with triple peak of steaming system. The design used in this research is Completely Random Design (CRD) with treatment length of time steaming which is consist of 6 treatments and 3 times replications. There are A (70 minutes of steaming time), B (80 minutes of steaming time), C (90 minutes of steaming time), D (100 times of steaming time), E (110 minutes of steaming time), F (120 minutes of steaming time). Observational data were analyzed by F test and if significantly different, it is followed by Duncan's New Multiple Range Test (DNMRT) at 5%. The long of steaming time to the loss of palm oil in the condensate water with triple peaks system influences to the oil lost 0.72%, 3.59% 3,59% free fat acids, 0,35% the degree of water, 0.03% impurity content, 14,26 g iodine Iod / 100 g, 6.03 mg / kg the Iron metal contamination, 0.50 Cu Copper metal contamination mg / kg.

Keyword: condensate water, palm oil, oil losses, steaming