

**PERUBAHAN KANDUNGAN KADAR ASAM LEMAK BEBAS (ALB) DAN KADAR AIR DARI CPO PADA TANGKI CST DIBANDINGKAN DENGAN CPO SETELAH MENGALAMI PEMURNIAN MELALUI *OIL PURIFIER* DAN *VAKUM DRIER* PADA TANGKI MINYAK PRODUKSI DI PABRIK PKS PTP.NUSANTARA IV PABATU TEBING TINGGI**

**ABSTRAK**

Telah dilakukan pengamatan untuk mengetahui perubahan kandungan kadar asam lemak bebas dan kadar air dari CPO pada tangki CST dibandingkan dengan CPO setelah mengalami pemurnian melalui *Oil Purifier* dan *Vakum Drier* pada tangki minyak produksi di Pabrik PKS PTP.Nusantara IV Pabatu Tebing Tinggi. Asam lemak bebas ditentukan melalui metode titrasi titrimetri (titrasi asam basa) menggunakan larutan standart KOH 0,1 N dengan indikator fenolftalein sedangkan kandungan kadar air ditentukan melalui metode gravimetri.

Hasil analisis menunjukkan sebelum melalui proses *Oil Purifier* dan *Vakum Drier* kandungan kadar asam lemak bebas rata - rata sebesar 6,99 % dan kandungan kadar air rata - rata sebesar 0,387 % , selanjutnya setelah melalui proses *Oil Purifier* dan *Vakum Drier* diperoleh kandungan kadar asam lemak bebas rata - rata sebesar 3,97 % dan kandungan kadar air rata – rata sebesar 0,138 % . Perubahan kandungan asam lemak bebas sebelum dan sesudah mengalami proses *Oil Purifier* dan *Vakum Drier* sebesar 3,02 % dan kandungan kadar air sebesar 0,25 %.

**CHANGES IN THE CONTENT FATTY ACID FREE (ALB) AND CONTENT OF THE WATER CPO IN THE CST TANK COMPARED WITH CPO AFTER EXPERIENCING PURIFICATION THROUGH OIL PURIFIER AND DRIER VACUUM OIL TANK IN PRODUCTION IN THE PALM OIL FACTORY PTP.NUSANTARA IV PABATU TEBING TINGGI**

**ABSTRACT**

Observations have been carried out to determine changes in the content fatty acid free and content of the water CPO in the CST tank compared with CPO after experiencing purification through Oil Purifier and Drier Vacuum oil tank in production in the palm oil factory PTP.Nusantara IV Pabatu Tebing Tinggi. Free fatty acids are determined through titration titrimetric method ( acid base titration ) receipts standard solution of 0,1 N KOH withphenolphthalein indicator while the water content determined through gravimetric method.

Result of the the analysis showed prior to processing Oil Purifier and Drier Vacuum content of fatty acid free average - average of 6,99% and the content of water average - average of 0,387%, then after going through the process of Oil Purifier and Drier Vacuum obtained free fatty acid content average - average of 3,97% and the content of water average - average of 0,138%. Changes in the content fatty acid free before and after experiencing the process of Oil Purifier and Drier Vacuum of 3.02% and the content of water 0,25%.