

ABSTRAK

Peranan unit *Excavator PC200-2 Komatsu* di lingkungan pengaspalan sangat bergantung pada komponen *undercarriage*. Hal tersebut dikarenakan mempengaruhi kinerja dari *excavator* akan menurun saat beroperasi. Maka diperlakukan perawatan yang rutin dan terjadwal. Tujuan penelitian ini adalah untuk mengetahui persentase keausan dan usia pakai *undercarriage* pada komponen *track shoe*, *track roller* dan *carrier roller excavator PC200-2 Komatsu*.

Pada penelitian ini analisa yang digunakan untuk menggambarkan persentase keausan dan usia pakai komponen *undercarriage* pada komponen *track shoe*, *track roller* dan *carrier roller* dengan diagram *fishbone*.

Hasil perhitungan persentase keausan dan usia pakai komponen *undercarriage*, didapat hasil persentase keausan komponen *track shoe* pada 240 jam yaitu 22,0%, *track roller* 15,8%, dan *carrier roller* 13,0%. Untuk persentase keausan pada 480 jam komponen *track shoe* yaitu 46,0%, *track roller* 35,0%, dan *carrier roller* 31,0%. Sedangkan persentase keausan untuk 720 jam komponen *track shoe* yaitu 77,0%, *track roller* 63,3%, dan *carrier roller* 57,0%. Sisa usia pakai dari komponen *track shoe* adalah 215 jam, *track roller* adalah 265 jam dan *carrier roller* adalah 389 jam.

Kata Kunci: *Excavator PC200-2 Komatsu*, *Undercarriage*, *Track shoe*, *Track roller*, *Carrier roller* dan *Diagram Fishbone*

ABSTRACT

The role of the unit excavator The Komatsu PC200-2 in paving environments relies heavily on components undercarriage. This is because it affects the performance of the excavator when it operates. Then treated regularly and scheduled. The purpose of this study was to determine the percentage of wear and life of the undercarriage on the track shoe, track rollers, and carrier rollers components of the komatsu.

In this study, the analysis used to describe the percentage wear and life of the undercarriage components on the track shoe, track roller, and carrier roller components with a fishbone diagram.

The results of the calculation of the percentage of wear and age of the undercarriage components showed that the percentage of wear of the track shoe components at 240 hours was 22.0%, the track roller was 15.8%, and the carrier roller was 13.0%. The percentage of wear on 480 hours of track shoe components is 46.0%, track rollers are 35.0%, and carrier rollers are 31.0%. While the percentage of wear for 720 hours of track shoe components is 77.0%, track rollers are 63.3%, and carrier rollers are 57.0%. The remaining life of the track shoe components is 215 hours, the track roller is 265 hours, and the carrier roller is 389 hours.

Keywords: Excavator Komatsu PC200-2, Undercarriage, track shoe, track roller, carrier roller, and Fishbone Diagram.