ABSTRACT

FACTOR ANALYSIS OF PT. PELABUHAN INDONESIA III (PERSERO) CABANG TANJUNG PERAK CONTAINER CRANE OPERATOR MUSCULOSKELETAL DISORDERS COMPLAINTS

Container crane operator jobs majority was sitting, and bent to look down. This job was always done by the operator because the position operator cabin located at an altitude of 30-40 m. The purpose of this study was to analyzed the causes of musculoskeletal disorders operator of container cranes at PT. Pelabuhan Indonesia III (Persero) Branch of Tanjung Perak. The approach of this study was a quantitative research study with cross-sectional study design.

The results showed that analysis operator of anthropometric and body posture with RULA method showed that it needed further investigation of ergonomics and changes required for repair work postures with level action on the 4 scores. Most of the work stations that used by the operator did not complied with the operator anthropometry. The entire container crane had a working environment in accordance with the threshold value (28-32°C). Whole body vibration and HAV was still below the standard. Majority of Container Crane operator PT. Pelabuhan Indonesia III (Persero) Branch of Tanjung Perak have medium MSDS complaints. Conclusion: Incidence of musculoskeletal disorders (MSDs) were influenced by the age of respondents in range of 22.65 %, by the work period in range of 8 %, by smoking habits of the respondents in range of 14.1 %, by body mass index (BMI) in range of 12.6 %, by the work station in range of 2%.

Key word: Musculoskeletal disorders, RULA, Container Crane.