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CRITICALITY ANALYSIS OF STEERING SYSTEM ELEMENTS OF AUTOMOBILE IN WARRANTY PERIOD

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In this paper basic assumptions of Failure Modes, Effects and Criticality Analysis - FMECA of mechanical systems' elements were given. Using this method, critical elements which decrease the reliable and safe work of the system could be determined. Using FMECA for the steering system elements of an automobile and using failure elements' data for warranty period, base for making conclusions about corrective measures for reducing element's criticality, i.e. increasing reliability and safety of this system which itself means increasing the quality level of the whole automobile, is obtained.

Key words: FMECA, steering system of automobile, warranty period.

ANALIZA KRITIČNOSTI ELEMENATA SISTEMA ZA UPRAVLJANJE AUTOMOBILA U GARANTNOM PERIODU

U radu su date osnovne postavke metode Analize načina, posledica i kritičnosti otkaza (FMECA) elemenata mašinskih sistema čijom se primenom mogu odrediti kritični elementi koji smanjuju pouzdan i siguran rad sistema. Sprovođenjem FMECA za elemente sistema upravljanja automobila domaće proizvodnje, na osnovu podataka o otkazima elemenata u toku garantnog perioda rada, dobija se osnova za donošenje zaključaka o preduzimanju najcelishodnijih korektivnih mera u cilju smanjenja kritičnosti elemenata, tj. povećanja pouzdanosti i sigurnosti ovog sistema, a samim tim i nivoa kvaliteta čitavog vozila.

Ključne reči: FMECA, sistem za upravljanje automobila, garantni period.