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DETERMINATION OF ACTUAL LOADS OF DUMP TRUCK SYSTEMS AND AGGREGATES

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Freight vehicle systems and aggregates are affected by the actions of complex loads during exploitation. Since the designing process requires these loads to be known, this paper shows some partial results of exploitation research of loading on testing of FAP 226BK/6x4 dump truck. During these research tests, special attention was paid to the loads of frames, axles, steering system rods, springs, propeller shaft, axle guide rods and hydraulic steering servo of the stated dump truck in its characteristic exploitation conditions. Statistical analysis of testing results was performed, by applying Range-Mean and Level-Crossing Methods, which enabled definition of necessary information for calculation and testing of the above mentioned truck systems.

Key words: truck, loads, statistics

UTVRĐIVANJE STVARNIH OPTEREĆENJA AGREGATA I SISTEMA KIPER KAMIONA

Sistemi i agregati teretnih motornih vozila su tokom eksploatacije izloženi delovanju složenih opterećenja. Kako je pri projektovanju neophodno poznavanje istih, u radu su prikazani delimični rezultati eksploatacionih istraživanja opterećenja kiper vozila FAP 226BK/6x4. Tokom ispitivanja, posebna pažnja je posvećena opterećenjima okvira i mostova, spona sistema za upravljanje, gibnjeva, zglobnog prenosnika, sistemu vođenja točkova i hidroupravljača pomenutog kiper vozila u karakterističnim eksploatacionim uslovima. Izvršena statistička analiza rezultata ispitivanja, primenom metode srednjih vrednosti oblasti i metode prelaza graničnih oblasti omogućila je definisanje potrebnih informacija za proračun i ispitivanje pomenutih sistema posmatranog kamiona.

Кljučне речи: Kamion, opterećenja, statistika