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Experimental Determination of Characteristics of Rubber Components of Rubber-Metal Joint of Caterpillar Mover

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There are results of experimental research of rubber component characteristics of rubber-metal joint of tracks of the track chain in the work. The research was carried out on the samples with squared shape section of the rubber components, with trapezium-shape section and with lateral surface in the form of parabola. As a result of the research we've found out movements in the section of the rubber component after press-fitting in the lug, the radial and angular stiffness of rubber components, and also distribution of specific pressure in bands of contact of the rubber component surface and the lug under different rates of compression. We've analyzed the influence of the rubber component shape on their metal characteristics.