



Study of the Current Practice of Assigning Automotive Technical Examination

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Annotation: The article deals with the analysis of the problem of accidents in road transport in order to determine the statistics of vehicles that take into account the technical condition of vehicles and the road environment. Determined the impact on the efficiency of the braking process of vehicles in the production of autotechnical expertise of the safe technical condition of the car and the road environment.

Keywords: Traffic accidents, vehicles, forensic examination, forensic auto technical examination, auto technical examination, vehicle technical condition, driver, car, road.

It is possible to establish the causes and factors contributing to the occurrence and development of traffic accidents only through a detailed study of the road situation and its measurements. The more complete and reliable the data, the more objectively and in detail the mechanism of road accidents will be reproduced.

Depending on the departmental affiliation of the organization investigating traffic accidents, a distinction is made between an internal investigation and a forensic examination. An internal investigation is carried out by employees of organizations that own vehicles involved in road traffic accidents, or employees of road services who supervise this section of the road in order to establish the circumstances, conditions and causes of road traffic accidents, identify violations of established norms and rules, as well as in the development of measures to eliminate the causes of accidents [1,2,3]. Forensic examination is a procedural action leading the circumstances of a case of traffic accidents in order to identify factual data that may be evidence for establishing the truth based on criminal and civil cases. A forensic autotechnical examination establishes a scientifically based description of the process of road traffic accidents, the determination of the objective causes of road traffic accidents and the behavior of its individual participants.

The final and reliable conclusion of the autotechnical expertise depends on how adequately the source information corresponds to reality, whether it is always accurate and plausible. Sometimes this condition, when performing an examination, is not met [4,5,6]. Among the reasons for non-fulfillment of the condition may be: the uncertainty of the verbal and qualitative description of the environment, the state of vehicles and the road surface, the inevitable random spread of the actual values of the calculated values relative to the recommended reference value, their dependence on influencing factors [6,7].



Autotechnical expertise is a decisive answer in the study of the circumstances of road accidents and determines an important role in the interaction of subsystems in a two-element connection in the "Driver-Car-Road-Environment" system.

Autotechnical expertise is aimed at determining the parameters and characteristics of the technical condition of the car and related factors that reduce road safety.

The main issues to be solved by autotechnical expertise in the reconstruction of traffic accidents, taking into account the technical condition of vehicles and the road:

1. Did the actions of the drivers meet the requirements of the traffic rules in this traffic accident under the specified road-climatic and technical conditions?.

2. What is the stopping distance of vehicles at V_a , taking into account the parameters of the road?

3. Did the driver have the technical ability to prevent traffic accidents and avoid a collision with a pedestrian (collision, rollover)?

4. What is the condition of the roadway and roadsides where the accidents occurred?[8].

5. Do the geometric parameters, the condition of the road surface and the shoulders of the section of the road where the accident occurred meet the requirements of regulatory documents?

6. Are there any engineering structures (overpass supports, lighting masts, fences, etc.) and how are they located relative to the roadway?[9],

7. What were the weather-climatic, aerodynamic and temporal conditions at the time of the traffic accidents?[9].

8. What is the state of arrangement of the place of traffic accidents with means regulating traffic (traffic lights, road signs, markings, etc.)?[10].

9. How is the quality of the maintenance of the section of the road on which the accident occurred, the road maintenance organization?[8,9].

10. What regulatory and technical documentation regulates the operational properties of the road section indicated in the scheme of traffic accidents?

11. Is the pit in the asphalt part of the road, indicated in the scheme of traffic accidents, a defect in the road, and is this defect within the limits allowed by the regulatory and technical documentation?

12. If the defect of the road at the scene of traffic accidents does not comply with the normative and technical documentation, then is such a discrepancy from a technical point of view in a causal relationship with the fact of traffic accidents?

13. What requirements of regulatory documents should be guided by the officials of the organization responsible for the operation of this section of the road to ensure traffic safety, and do their actions comply with these requirements?

In the production of autotechnical expertise, taking into account the technical condition of vehicles and the road environment, the following tasks are solved:

- study of the situation at the scene of traffic accidents: the condition of the road surface of the carriageway, roadsides, a section outside the roadway;

- determination of the values of parameters and coefficients that characterize the movement of vehicles and other objects at the scene of traffic accidents: the coefficient of adhesion, resistance to movement of vehicles and other objects on the road surface (shoulder), the amount of deceleration during braking in a given section, rolling resistance, condition vehicle loading, etc.;



- determination of the state of the road at the place of traffic accidents, the presence of slopes in the longitudinal and transverse directions, curves;
- establishing the technical feasibility of preventing traffic accidents, taking into account the condition of the road, its facilities (traffic signs, etc.) and other circumstances related to the characteristics of the road and the environment.
- identification of circumstances related to the state of the road situation before road traffic accidents that contributed or could contribute to the occurrence of road traffic accidents, including poor road conditions, lack of proper road signs, their incorrect location and other negative features of the road situation.

The purpose of these studies is to determine the degree of influence of the technical condition of vehicles and roads on the mechanism of road accidents.

The probability of occurrence of traffic accidents is determined depending on the road conditions, which, according to the investigative inspection and the type of traffic accidents, could contribute to the development of an emergency. For example, when skidding or overturning vehicles on a curve, the probability of occurrence of traffic accidents is set in the plan depending on the radius of the curve, the speed of movement and the coefficient of transverse adhesion of the coated wheels. The combination of road conditions and factors that lead to a dangerous situation in the initial stage of road traffic accidents is called the situation at the scene[11].

The situation of the scene of an incident is understood as the qualitative state of situational factors and the spatial connection of objects that make up the scene of an incident in their complex. The environment of the scene primarily includes: the geometric elements of the road section on which the accident occurred, and their compliance with the requirements of regulatory documents; the condition of the road surface and roadsides; the presence of overpass supports, lighting masts and their location relative to the edge of the carriageway; weather and climatic conditions at the time of traffic accidents and the level of maintenance of the road section by the road maintenance organization, as well as the engineering arrangement of the accident site with traffic lights, road signs and markings.

In the production of autotechnical expertise, taking into account the technical condition of vehicles and the road environment, questions are raised, the answers to which can give an accurate representation of the traffic situation. However, it should be noted that other questions can be raised, the main thing is that these questions fall within the competence of the expert. Upon receipt of answers to all the questions posed, it is necessary to determine the expert characteristics of both vehicles and the road, i.e. characteristics that affect the mechanism of traffic accidents or are related to its circumstances and are subject to expert research.

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