DETERMINATION OF THE TECHNICAL CONDITION OF ROAD TRANSPORT INCIDENTS DUE TO VEHICLES CRASHING WITH AN OBSTRUCTION

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Annotation: *This article presents the requirements for determining the technical condition of a vehicle after a road traffic accident and the main issues for experts.*

Keywords: *traffic accident, car, pedestrian, speed, brake, stop, distance, driver.*

The technical condition of the vehicle is subject to factual information about the technical condition of the vehicle involved in the traffic accident.

The main parts of the vehicles involved in the traffic accident, which should be determined in terms of their technical condition, are those that affect their traffic safety: brake system, steering, movement part and lighting system.

A specific feature of determining the technical condition of the vehicle requires direct inspection and research of the vehicle or its individual parts. When determining the technical condition of a vehicle, it may not always be possible to repeat it a second time, because in many cases the primary research leads to a change in the initial condition of the part being examined.

Checking the technical condition of the vehicle requires the following requirements to be met:

- conducting an expert examination shortly after the traffic accident;
- that the state of the vehicle after the traffic accident does not change before the examination. If the technical condition of the vehicle changes due to some reasons, giving detailed information about it to the expert;
- to provide the information determined by the investigation office during the initial inspection of the vehicle to the expert;
- providing information to the expert about the circumstances that may be related to the incident on the eve of the traffic accident and known to the investigation;
- providing the expert with information about the ways of removing them, the changes made, their features, photos during the research of individual parts of the vehicle.

It should be considered that each object can be studied not only by an expert in auto engineering, but also by an expert in another field. For example, a single vehicle may be inspected by an automotive expert to determine its technical condition, and a

specialized expert may examine it to determine the direction of the impact force on the tires.

Therefore, when an investigation plan for a traffic accident is drawn up, it is necessary to begin the investigation of the vehicle first with the examination that makes the least change to its condition.

Expertise on determining the technical condition of a vehicle involved in a traffic accident resolves the following issues:

- determination of the technical condition of the vehicle and its individual parts (brake system, steering, etc.) (good or defective);
- to determine the causes of technical malfunctions of the vehicle;
- determining when the technical malfunctions of the vehicle appeared in relation to the traffic accident;
- to determine whether the fault in the vehicle was present before departure;
- researching how the detected malfunction affects the general condition of the vehicle;
- to determine whether there is a causal connection between the identified malfunction and the incident;
- determination of performance indicators of the investigated system of the vehicle.

According to these issues, the questions to be put before the expertise should be clearly stated. It is not appropriate to ask a general question: "Determine the technical condition of the vehicle", because it is impossible to determine the cause of the incident from the conclusion given about all its parts, which only complicates expert research.

In order to carry out this examination, the expert has at his discretion the vehicle under inspection or its part, information about the technical condition of the vehicle (the certificate of technical inspection, information about the repair of the vehicle, etc.), a report on the technical condition of the vehicle drawn up after the traffic accident is submitted.

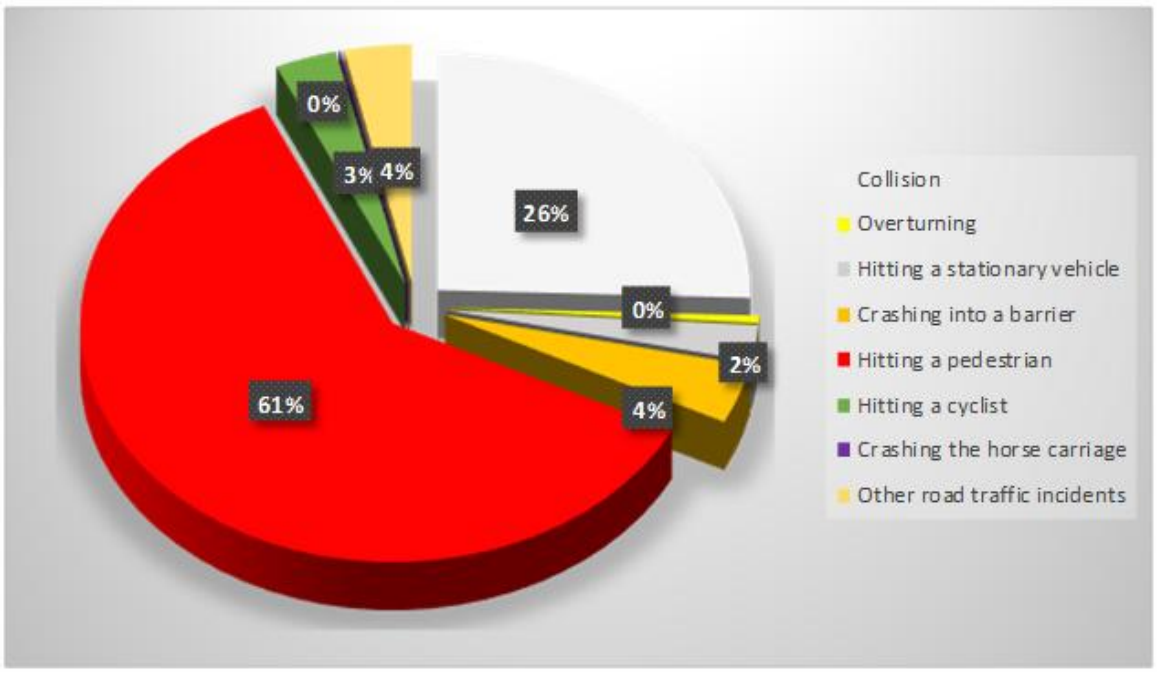

Figure 1. Analysis of the types of road traffic incidents that occurred in Tashkent in 2023.

According to the results of the analysis, the most common types of road traffic accidents are hitting pedestrians and collisions.

As a research, we will examine the technical condition of vehicles and in this case, whether the brakes and steering of the "Captiva-3" car under the control of the driver were in good condition, if they were in a defective condition, were they defective before the accident or were they in a defective condition after the accident. The following scientific studies will be conducted to determine whether

A scale ruler and a digital camera were used during the inspection of the vehicle by experts in the place where it was stored, in natural light. their connected parts were checked.

During the inspection, the steering belt, the axle connecting the steering box to the steering mechanism, the power steering and its radiator were damaged and had fluids. it was found that the parts and details are in place, and the steering gears are firmly attached to each other and splined. Detected damage to the steering wheel does not fall into the category of damage that occurs during the normal handling of the car. Injuries of this type can occur as a result of external force. The conducted studies showed that this force was caused by a car accident at the time of the incident mentioned in the decision, and due to its influence, the steering wheel was in a technical malfunction.

So, at the time of the inspection, the steering of the Captiva car was technically defective. The technical failure detected in the steering of the Captiva car was caused by an accident.

During the inspection of the working brake system of the Captiva car, the condition of the brake pedal, brake fluid, pipes from the main brake cylinder, hydraulic vacuum amplifier, metal and rubber pipes in the brake system, wheel brake mechanisms and their parts were examined. When we examined the brake system of the car, no damage was detected. Also, it was found that the transmissions of the brake system of the car were firmly connected to each other, the thickness of the pad covers was about 10-12 mm, and when we pressed the brake pedal, it hardened, that is, it showed that it was usable.

The conducted studies showed that the brake system of this car is in a technical condition.

So, at the time of the inspection, the braking system of the Captiva car was in good condition.

During the inspection of the undercarriage of the Captiva car, it was found that the air pressure in the suspension and wheels is 10-12 mm deep. No damage was detected in the walking part.

So, at the time of the inspection, the running parts and braking systems of the Captiva car were in perfect condition from a technical point of view. The technical failure detected in the steering of the Captiva car was caused by an accident.

From the above research, we come to the following conclusion, at the time of the inspection, the brake system and running gear of the Captiva car were in perfect condition from a technical point of view. The technical failure detected in the steering of the Captiva car was caused by an accident.

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