

## TRAFFIC TECHNICAL EXPERTISE FINDINGS AND OPINION

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This article deals with analysis and description of an accident happened on 25.07.2013 around 05:00 am between TMV on the crossroad north of the main road Skopje - Ohrid with the St. Boulevard "Boris Kirov" in Kicevo, (isolated crossroad)

The main road Skopje-Ohrid is made of two lanes with two traffic lanes constructed of asphalt surface with width of 7,1m where there is one way traffic. The lanes are separated by a concrete curb with green surface and there is speed limit of 50km/h.

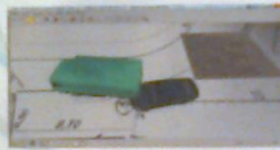
On the night there was found PMV "Mercedes E320" which was damaged in the front part, the doors of PMV "Mercedes" were locked

In the opposite direction to the PMV "Mercedes E320" there has been present the stopped TMV "Tanker Mercedes 1824" in the opposite direction to the PMV "Mercedes E320" there has been present the stopped TMV "Tanker Mercedes 1824"



The goal is to analyze the accident and to make a conclusion about reasons. During an analysis phase Virtual Crash 3 software was applied And it was found that:

- TMV "Mercedes tanker" in the area of the crossroad entered with turned on red light of the traffic lights while PMV "Mercedes" with turned on green light on the traffic lights
- The driver of PMV "Mercedes" on the created danger reacted with direction on the vehicle on the left and from its right traffic lane crossed on the imagined left traffic lane in the attempt to avoid the crashing with TMV "Mercedes-tanker".
- The moment of creation of the real danger for the driver of PMV "Mercedes E320" was made on 56m before the crash, when TMV "Mercedes tanker" entered on the lane on which the PMV "Mercedes E320" was moving. If the driver of PMV "Mercedes E320" in the given situation reacted on time with intensive stopping, he had technical possibility through stopping to stop the vehicle before the place of crashing. The driver of TMV "Mercedes tanker" on the concrete case of the crossroad entered with turned on red light on the traffic lights and entered on the right traffic lane instead to enter on its left traffic lane and in that way in considerable measure and range stopped the movement of PMV "Mercedes E320". With such taken actions the driver of TMV "Mercedes tanker" initiated dangerous situation which resulted with creation of the subject accident.



Because of this particular tragic accident traffic accident three people was injured and one person died.

Reports opinions on the accidents are following:

- The protection time of the traffic lights does not secure maximal safety of the vehicles which at any time were found directly before or in the area of the crossroad at the phase exchange of the regime of work of the traffic lights.
- The driver of TMV "Mercedes tanker" on the concrete case of the crossroad entered with turned on red light on the traffic lights and entered on the right traffic lane instead to enter on its left traffic lane and in that way in considerable measure and range stopped the movement of PMV "Mercedes E320". With such taken actions the driver of TMV "Mercedes tanker" initiated dangerous situation which resulted with creation of the subject accident.
- TMV "Mercedes tanker" in the area of the crossroad entered with turned on red light of the traffic lights while PMV "Mercedes" with turned on green light on the traffic lights.



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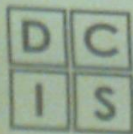
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