Hazard ID	Situational Analysis							Hazard Identification					
	Operational Mode	Operational Scenario	Environmental Details	Situation Details	Other Details (optional)	Item Usage (function)	Situation Description	Function	Deviation	Deviation Details	Hazardous Event (resulting effect)	Event Details	Hazardous Event Description
HA-001	OM03 - Normal driving		(slippery road)	SD02 - High speed			used system	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback	much	The Lane Departure Warning (LDW) function applies too high an oscillating torque to the steering wheel	EV00 - Collision with other vehicle	The driver looses control of the vehicle, cannot keep the lane and collides with another vehicle	The oscillating steering torque provided by the Lane Departure Warning (LDW) function is excessive and causes the driver to loose control of the vehicle
HA-002	OM03 - Normal driving		conditions	SD02 - High speed		used	normal conditions with high speed and incorrectly used system (the driver is misusing the lane looping assistance function as a fully autonomous function)	Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane	always activeted	Assistance (LKA) is always activated	EV00 - Collision with other vehicle	autonomous driving, gets out of the lane and collides with another vehicle	The driver misuses the Lane Keeping Assistant (LKA) as if it were meant for autonomous driving
HA-003	OMC3 - Normal driving	OS03 - Country road	EN01 - Normal conditions	SD02 - High speed		used	·	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback	DV13 - Sensor sensitivity is too low	The sensitivity of the camera is too low		The camera having low sensitivity does not recognise the lane lines and the car exits the lane without warning and collides with another wehicle	The camera sensitivity is too low and it does not recognise faded lane markings
HA-004	OM03 - Normal driving	OS04 - Highway	EN06 - Raining (slippery road)	SD02 - High speed			(slippery road) with high speed and correctly used system	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback		The Lane Departure Warning (LDW) function is unexpectedly activated	EV05 - Front collision with ahead traffic	The Lane Departure Warning (LDW) function is unexpectedly activated causing frustration to the driver and collides with the car in front	The Lane Departure Warning function is unexpectedly acticvated

		Determination of ASIL and Safety Goals					
Exposure (of situation)	Rationale (for exposure)	Severity (of potential harm)	Rationale (for severity)	Controllability (of hazardous event)	Rationale (for controllability)	ASIL Determination	Safety Goal
E3 - Medium probability	Occurs once a month or more often for an average driver	,	Collisions with other vehicles at high speeds could cause fatal injuries	C3 - Difficult to control or uncontrollable	If the oscillating steering torque is above the limit it makes it very difficult or the driver to regain and maintain control and steer the vehicle into a safe trajectory	ASIL-C	The oscillating steering torque from the Lane Departure Warning function shall be limited
E2 - Low probability	Occurs a few times a year for the great majority of drivers	,		C3 - Difficult to control or uncontrollable	If the driver treats the Lane Keeping Assistance (LKA) as autonomous driving, he relies on the system to keep the lane. However, since this is not the normal function of the LKA it will cause frustration to the driver who is already in an unaware condition	ASIL-B	The Lane Keeping Assistance function shall be time limited and the additional steering torque shall end after a given time interval so the driver cannot misuse the system for autonomous driving
E2 - Low probability	Occurs a few times a year for the great majority of drivers. Depending on the country the lane lines may be taded more often		Collisions with other vehicles at high speeds could cause fatal injuries	C2 - Normally avoidable	While there is no warning for the imminent lane change, if the driver notices he can efficiently drive the vehicle to the centre of the lane	ASIL-A	The camera sensitivity shall be adequate enough to identify faded lane lines
E3 - Medium probability	Occurs once a month or more often for an average driver	threatening injuries	In collisions with the traffic ahead at high speeds in a highway may cause sever injuries	C2 - Normally controllable	If the Lane Departure Warning (LDW) function is unexpectedly activated, normally the driver can maintain control of the vehicle and turn off the LDW		The Lane Departure Warning (LDW) shall reduce the likelihood of unexpected activations to the bare minimum