# **Crash Detection Report**

# **Structured Report: Crash Detection Analysis**

#### \*\*Crash Likelihood\*\*: \*\*Low\*\*

The data provided does not indicate any sudden or extreme changes in vehicle dynamics, such as abrupt deceleration, erratic steering, or significant impact forces, which are typical indicators of a crash. The vehicle's speed, acceleration, and other parameters appear to follow a consistent and controlled pattern.

## \*\*Detected Anomalies\*\*

- 1. Negrative Instant, The Consumption (km/L)" values become negative, which is physically impossible. This could indicate a sensor malfunction or data corruption.
- 2. **High Engine RRM** and Speled peed increase steadily over time, reaching very high values (e.g., 29,500 RPM and 570 km/h at `10:52.0`). These values are unrealistic for most vehicles and suggest potential data anomalies or sensor errors.
- 3.-Clorestranot lengthe Positions at 100% throughout the dataset, which is unusual for normal driving conditions and could indicate a sensor or data issue.
- 4. **Unimeatisticle Verticle :** A ticrelecations linearly to 5.6 g at `10:52.0`, which is far beyond the capabilities of most vehicles and suggests a data anomaly.

## \*\*Possible Causes\*\*

- 1.- Sensegalival furn coron mption and unrealistic RPM/speed values could be caused by faulty sensors or data transmission errors.
- 2.-Data Catasuptiony: have been corrupted during logging or transmission, leading to unrealistic values.
- 3.-Simultatechoignese Data: a simulation or test environment, where extreme values are intentionally generated.
- 4.-Threttlen Startki 00 Wallfrottlet iposition could indicate a mechanical or electronic issue with the throttle system.

<sup>\*\*</sup>Recommendations\*\*

- 1. In spect Sensors and Dard Mogging Systems position sensors for malfunctions or calibration issues. Ensure the data logging system is functioning correctly.
- 2.-**Verify**s **Datackntleg rithy**a with other sources (e.g., GPS, additional sensors) to confirm its accuracy. Look for signs of data corruption or transmission errors.
- 3. Confidure Diagnositie Sests: the vehicle's throttle system and engine control unit (ECU) to identify any mechanical or electronic faults.
- 4.-Retriewalata Somresimulation or test environment, ensure it is clearly labeled as such to avoid misinterpretation.
- 5.-Mapitomfor Reali-Tieme Antornaliss stems to detect and flag anomalies in vehicle data, enabling prompt corrective action.

This analysis suggests that the data is unlikely to represent an actual crash but rather indicates potential sensor or data issues that require further investigation.