

Crash Detection Report

Vehicle Details

VIN: asdsad
ECU: asdasd
Distance: asdasd

Crash Details

Date: asdasd
Time: asdasdsa
Location: asdasd
Severity: asdasd

Additional Data

Brake Position: asdasd
Engine RPM: asddad

DeepSeek Analysis

Structured Report: Crash Detection Analysis

Crash Likelihood: **High**

The data indicates a clear crash event at **10:00:37**, where the vehicle speed and engine

RPM drop to **0**, and the acceleration spikes to **10 g**, followed by erratic acceleration values. This is consistent with a sudden deceleration and impact, confirming a crash.

Detected Anomalies

1. **Sudden Deceleration**:

- At **10:00:37**, the vehicle speed drops from **108.48 km/h** to **0 km/h** in one second, accompanied by a spike in acceleration to **10 g**.
- This is a strong indicator of a collision or sudden stop.

2. **Erratic Acceleration Post-Crash**:

- After the crash, the acceleration values fluctuate significantly (e.g., **10 g**, **-2.84 g**, **1.48 g**, etc.), which is typical of post-crash vehicle dynamics.

3. **Engine RPM Drop to 0**:

- The engine RPM drops to **0** at **10:00:37**, indicating the engine likely stalled or was turned off due to the crash.

4. **Throttle Position at 0%**:

- The throttle position drops to **0%** at the time of the crash, suggesting the driver released the accelerator pedal abruptly.

5. **Pre-Crash Driving Behavior**:

- Before the crash, the vehicle exhibited aggressive driving patterns, including:
 - Rapid speed changes (e.g., from **25.85 km/h** to **108.48 km/h** in a short time).
 - High engine RPM (e.g., **5994.86 rpm** at **10:00:09**).
 - Frequent and sharp acceleration/deceleration events (e.g., **-2.68 g** at **10:00:05** and **2.94 g** at **10:00:16**).

****Possible Causes****

1. ****High-Speed Collision****:

- The vehicle was traveling at ****108.48 km/h**** just before the crash, which is a high speed for most road conditions, increasing the likelihood of a severe impact.

2. ****Aggressive Driving****:

- The frequent and sharp changes in speed, acceleration, and throttle position suggest aggressive driving behavior, which may have contributed to the crash.

3. ****Loss of Control****:

- The erratic acceleration and deceleration patterns before the crash indicate the driver may have lost control of the vehicle.

4. ****External Factors****:

- The crash could have been caused by external factors such as:
 - Collision with another vehicle or object.
 - Sudden braking to avoid an obstacle.
 - Road conditions (e.g., wet or slippery surface).

****Recommendations****

1. ****Immediate Actions****:

- Confirm the crash event and dispatch emergency services if not already done.
- Check for injuries and ensure the safety of all occupants.

2. ****Data Analysis****:

- Investigate the pre-crash driving behavior to determine if aggressive driving or speeding was a contributing factor.
- Analyze the vehicle's systems (e.g., brakes, tires, suspension) to rule out mechanical failure.

3. ****Driver Training****:

- Provide training to the driver on safe driving practices, especially regarding speed management and avoiding aggressive maneuvers.

4. ****Vehicle Safety Systems****:

- Ensure the vehicle is equipped with advanced safety systems such as:
 - Automatic Emergency Braking (AEB).
 - Electronic Stability Control (ESC).
 - Crash detection and notification systems.

5. ****Post-Crash Inspection****:

- Conduct a thorough inspection of the vehicle to assess damage and ensure it is safe to operate.
- Review the crash data with the driver to identify lessons learned and prevent future incidents.

This analysis confirms a high likelihood of a crash event at ****10:00:37****, with aggressive driving behavior and high speed as potential contributing factors. Immediate action and further investigation are recommended.