

failure analysis

We provide legal and insurance clients with conclusions about the reasons for failure in a wide variety of machines, components and products. Our conclusions are based on a detailed inspection and interpretation of the evidence combined with a scientific analysis of the applied forces and environmental factors. MEA's failure analysis experts are always prepared to testify in court as expert witnesses.

Exploring failure is what we do every single day. Our group of licensed professional metallurgical and mechanical engineers have experience investigating failures in transportation, building mechanical systems, industrial machinery and accidents, and consumer products. Our engineers deploy a comprehensive skill set, from old-fashioned mechanical aptitude to the latest in digital metallurgical microscopy. When it comes to reporting our findings, we excel at conveying technically complex analyses clearly and concisely: our reports, illustrations, mediation presentations, depositions and trial testimony have been praised for their clarity and accuracy by insurance and legal professionals across North America.

Independent and objective research is central to MEA's approach to forensic engineering. Our failure analysis experts have published studies on a variety of topics including leaking pipe joints, loosening bolts and abrasion damage. In addition to contributing to the scientific literature, research also generates the know-how and equipment needed to conduct tests for case work.

We have investigated thousands of failures in the following systems and components:

Transportation

Passenger car, light truck, and heavy truck engines, fuel systems, suspensions, steering, brakes, and towing apparatus

Bicycles

Heavy equipment

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Recreational vehicles

Marine engines and propulsion

Personal watercraft

Building Systems

Plumbing

HVAC

Fire protection

Drainage

Fuel oil

Industrial Machinery & Accidents

Conveyors, cranes, forklifts and materials handling

Food processing equipment

Refrigeration

Injection moulders

Agricultural machinery

Amusement park rides

Warnings and guards

Safety equipment

Consumer Products

Tools

Domestic ware

Exercise equipment

Ladders

Space heaters

Furniture

Walking aids and wheelchairs

Acupuncture needles
