

# failure analysis

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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

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Bicycles

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Heavy equipment

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## expertise contact

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## associated professionals

### vancouver

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Dwayne Toscano

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Chris Tranquada

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Recreational vehicles

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Marine engines and propulsion

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Personal watercraft

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## **Building Systems**

Plumbing

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HVAC

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Fire protection

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Drainage

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Fuel oil

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## **Industrial Machinery & Accidents**

Conveyors, cranes, forklifts and materials handling

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Food processing equipment

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Refrigeration

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Injection moulders

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Agricultural machinery

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Amusement park rides

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Warnings and guards

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Safety equipment

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## **Consumer Products**

Tools

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Domestic ware

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Exercise equipment

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Ladders

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Space heaters

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Furniture

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Walking aids and wheelchairs

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Acupuncture needles

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