

ANALYSYS (*Investigation of immediate and fundamental (root) causes*)

Reconstruct the chronological order including the causes and effects of the accident:

Damage or Injury:

Truck#89 and Trailer#36 flipped on its side with 2 Nitrates sea cans.



Fact(s):
(Why?)

The trailer went sideways with the weight of the load and fell on its side.



Immediate Cause(s):
(Why?)

Using defective equipment: The first axle on the trailer had a major structural failure on the right side. The trailer was only supporting the load on the right side by the rear two axles.

- Heavy load 44,600 kg. Load capacity of the trailer #36 is 54,000 kg.



**Fundamental
(Root) Causes(s):**
(Why?)

Inadequate maintenance: The last inspection / work order done on the truck / trailer was on October 28, 2016 and the check list for the inspection is all checked good.

The suspension arm has been welded couple time in the past. We can see on the pictures.