Truck Tyre Injury Guidance

Separation Chafer/Turn Up Edge (Burst)







AREA:

BEAD

CONDITION:

Chafer Separation: Separation in chafer (steel, textile) and rubber, chafer and chafer, or chafer and carcass.

Turn Up Edge Separation: Edge of carcass layer separating.

This damage appears as cracks or swell on outside bead, or separations on inside bead.



CAUSES:

Fatigue of adhesion between rubber and cord by excessive stress and heat due to:

- Under inflation and/or overload.
- Excessive speed and/or braking.
- Fast cornering.
- Improper rims (improper size, flange, etc.).
- Faulty (deformed, rusted) rims.

RECOMMENDATIONS:

- Use tyres under the recommended air pressure and load.
- Avoid excessive speeding, sudden braking, and fast cornering.
- Use correct rims (size, flange contour) without deformation and rust.

HOW TO CHECK:

Inspect outside-bead for cracks or swells and inside-bead for separations. At the same time, check for tyre overloading in the bead (deformation, abrasion) and tread areas (shoulder wear, heel & toe wear).

Inspect cracks along the whole bead, and at the same time, check the used rim (size, flange, contour etc). Finally, check condition of use (air pressure, speed etc).



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