

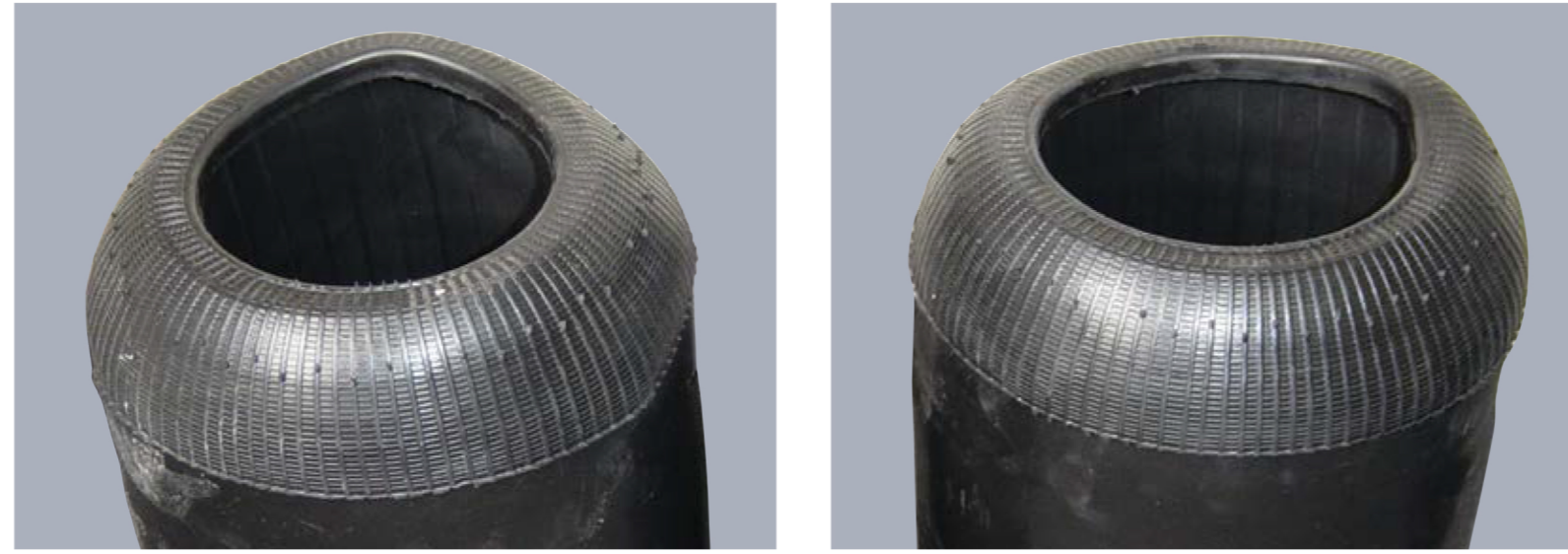
Air Springs “Problem - Cause - Solution”

▶ Problem and Cause

▶ Solution

Deformed Air Springs

- ① improper storage
- ② improper transport
- ③ improper handling



- ① storage according to ISO 5285
no daylight, dry, at normal room temperature
- ② avoid improper transport
- ③ avoid improper handling

Damage of the conical beads and cuts

- ① improperly mounted bead plate
- ② pinching of the bellows with metal parts



- ① keep conical beads clean and corrosion free
- ② avoid driving without pressure in the air suspension

Bellows rubs off at shoulder

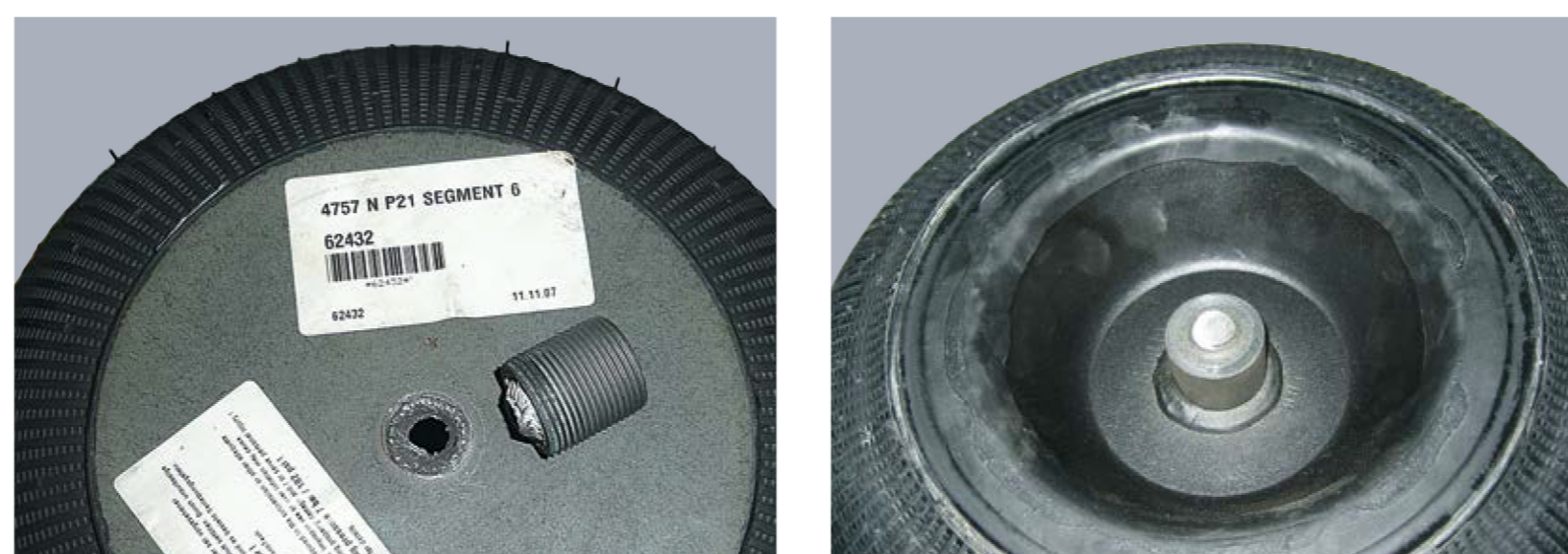
- ① bead plate diameter incorrect
- ② bellows too long for application



- ① make sure to use original parts
- ② avoid wrong cross references

Broken off thread bolts

- ① excessive torque
- ② use of oils or lubricants



- ① don't exceed recommended torque according to your maintenance manual
- ② avoid usage of oils or lubricants

Overextension

- ① spring travel not restricted
- ② incorrectly adjusted level control
- ③ air spring not suitable for application



- ① check the shock absorbers
- ② check and adjust level control valve
- ③ double check if the air spring fits the OE part number

Abrasion

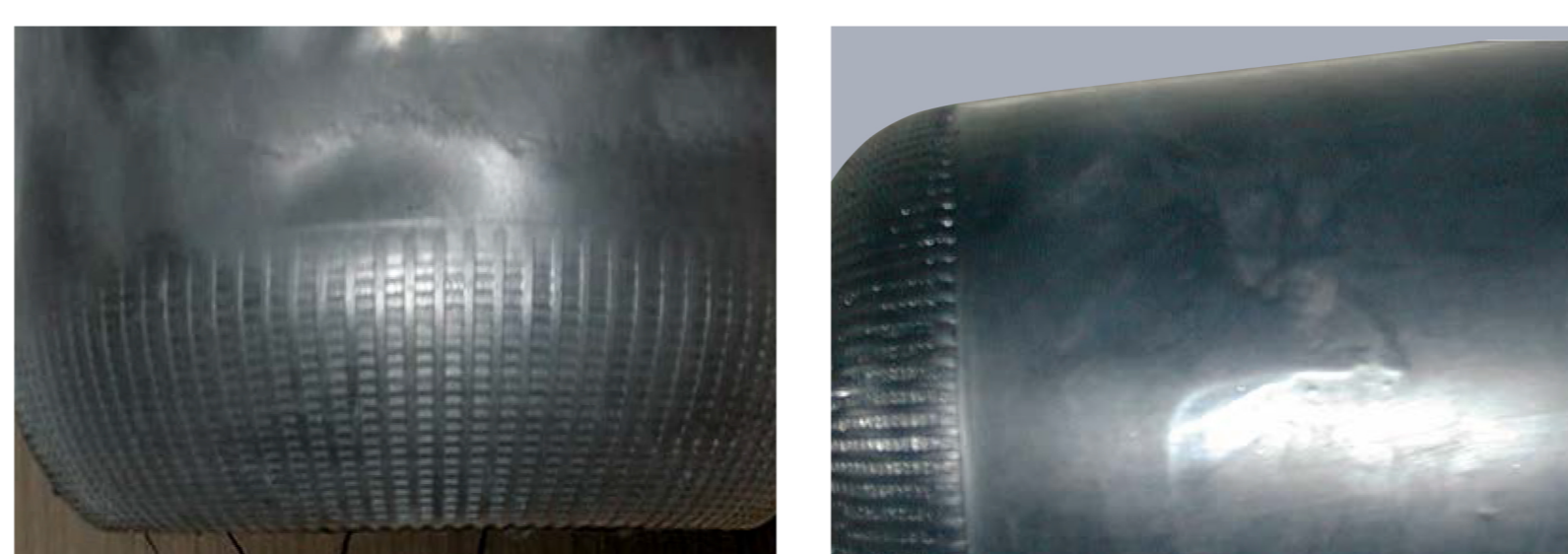
- ① Bellows contact with chassis parts
- ② Bellows contact with foreign bodies



- ① double check if the air spring fits the OE part number
- ② check regularly and remove foreign objects stuck between bellows and piston

Chemical contamination

- ① usage of oils or lubricants



- ① avoid usage of lubricants or cleaners which contain mineral oils
- ② check air springs on a regular basis

Air Spring bursting, broken piston

- ① overload
- ② exceeding the maximum allowable pressure



- ① never exceed the maximal allowed weight of the vehicle