Tire Safety

Clifton Walking Elk, Corporate Trainer

Reaching New Heights
34th Annual North Central Local Roads Conference
Rapid City, SD - October 16-17, 2019
The jury found that Goodyear Tire & Rubber failed to provide adequate warning about both the existence and cause of sidewall zipper failures when inflating an underinflated tire.

Goodyear to Pay $6.73 Million After Man Dies Following Tire Explosion, Louisiana Judge Rules

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A Louisiana district court has instructed the Goodyear Tire & Rubber Co. to pay $6.73 million in response to the tire explosion death of a Plaquemines Parish, Louisiana, garbage truck driver, according to the law firm Kaster Lynch Farrar & Bell. The jury found that Goodyear Tire & Rubber failed to provide adequate warning about both the existence and cause of sidewall zipper failures when inflating an underinflated tire.

The law firm says on Feb. 5, 2014, Elwood Breaux Jr. and a co-worker were inflating a G182 tire after noticing that the tire pressure was low. Breaux was holding the tire upright when the sidewall ruptured. The force of the air escaping from the tire threw him backward, and he sustained internal injuries to his chest and abdomen. Breaux never left the hospital and died from his injuries 28 days later.

In his recent Sept. 10 decision, Judge Michael Clement ruled that Goodyear had not carried out its duty to warn Breaux and co-workers about the tires' dangers and how to avoid being injured. Clement ordered Goodyear to pay $6.73 million to Breaux's wife and six children with an additional $481,075 going to the parish for workers' compensation.

"We are disappointed with the verdict and will appeal," said James Pente, director of global functions communications for Goodyear.
Stone Drilling
Front Wheels:

Rim
- Not bent
- Not cracked
- No welding repairs

Lug Nuts
- None are missing
- Tight – no shiny threads, or rust trails

Outer Hub Oil Seal
- Not leaking
- No missing bolts
- Proper oil level

Valve stem
- No cuts
- No damages
- No missing.
Lug Nuts:
- None are missing
- Tight – no shiny threads, or rust trails

Rim:
- Not bent
- Not cracked
- No welding repairs

Outer Hub Oil Seal:
- Not leaking
- No missing bolts
- Proper oil level

Valve stem:
- No cuts
- No damages
- No missing.

Space:
- Check for objects between wheels
- Check for proper spacing

Splash Guards:
- Not missing or torn and properly mounted
Stud Piloted Wheels

RECOMMENDED TORQUE - DRY:

- 3/4" - 16 THREAD: 450 - 500 FT. LBS.
- 1 1/8" - 16 THREAD: 450 - 500 FT. LBS.
- 15/16" - 12 THREAD: 750 - 900 FT. LBS.
- 1 5/16" - 12 THREAD: 750 - 900 FT. LBS.
Hub Piloted Wheels

HUB PILOTED WHEELS

10 Stud

8 Stud

RECOMMENDED TORQUE - OILED*:

M22 X 1.5 THREAD: 450 - 500 FT. LBS. (33mm or 1 1/2 HEX)
M20 X 1.5 THREAD: 280 - 330 FT. LBS. (30mm Hex)
Spoke Rims

DEMOUNTABLE RIMS

RECOMMENDED TORQUE - DRY:

$3/4 - 10$ THREAD: 200 - 260 FT. LBS.
Nail Hole Limitations

Maximum repairable nail hole diameter is 3/8 inch (T-T area).

All injuries larger than 3/8 inch or outside the specified T-T area, must be treated as a section repair.
Low Speed Tire Buffer
Buffing Wheels
Over Buff
Sidewall Cables
Never install right-hand threads on the left side of the vehicle or left-hand threads on the right side of the vehicle!
Heat Treated Wheels

Acceptable

Not Acceptable
Hydraulic Air Jacks
Remember, when hydraulic jacks are used as support devices, all of the weight is actually supported by the seal at the bottom of the ram.
Jack Stands
Jack cannot contact the drain plug.

It's also important to note that when using the differential, or pumpkin, to raise a drive axle, the jack cannot contact the drain plug.

Additionally, when lifting a fully loaded vehicle by the differential or in the middle of the axle tube may result in damage. In these instances, the best practice is to lift and support the axle at both ends.
Bead Blasters
TR550, Torque to 80-125 inch pounds
TR540, Torque 80-125 inch pounds
TR500 Torque 35-55 inch pounds
TR509, TR510, TR511 Torque
100-125 inch pounds
Tire Cage
Air Whip
During the inflation process, technicians should always listen for any popping sound that may indicate broken cords.
After the tire is inflated to 20 PSI, inspect the beads to make sure they are seated.
Inflation Pressure on Rims

Do not exceed the maximum inflation pressure stamped on the rim.
In order to comply with OSHA regulations and industry guidelines, all used, retreaded or repaired tires must be inflated in a restraining device.

While it may be considered acceptable to inflate a new tubeless tire on a single piece rim after it has been bolted to a vehicle, the best practice is to inflate all truck tires in a restraining device.
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