2026

Michigan Aggregate Association

Importance of Tire Safety

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Pomp's TIRE SERVICE, INC.

Importance of Tire Safety

- Pomp's Tire Service
- Tire basics 101
- Radial and Bias
- Proper tire selection
- Tire Safety and awareness
- Vehicle inspection
- NO-GO

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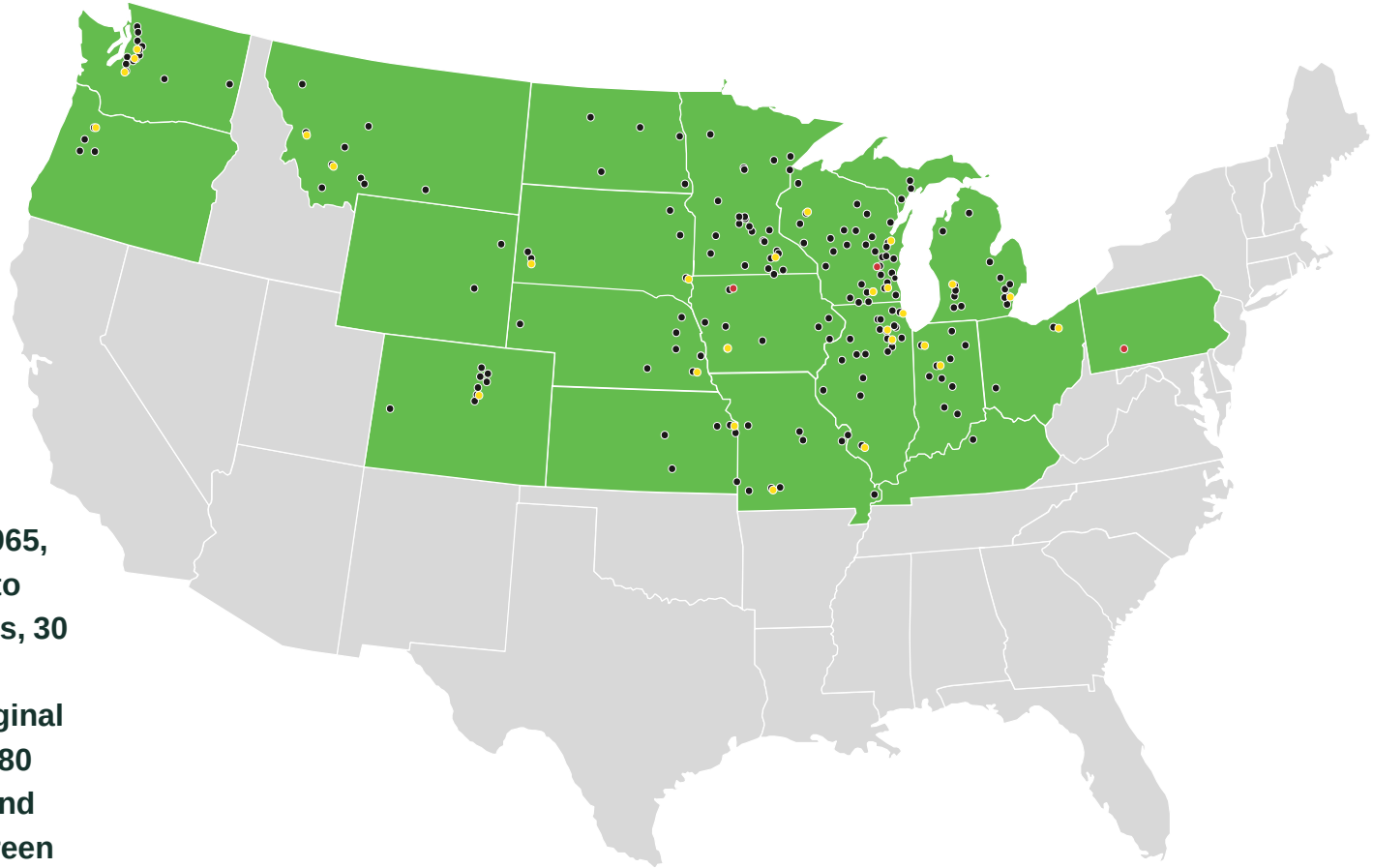
OUR FOOTPRINT

1939-Sparky starts initial location in Green Bay, WI

1965-Pomp’s sold to Wochinske family

1967-Opens 1st retread facility

2015-now acquisitions to 220+ locations



Since that initial expansion in 1965, Pomp's Tire Service has grown to include 200 locations in 19 states, 30 retread plants, one wheel manufacturing facility, and 3 original equipment locations. After over 80 years, we’re still family-owned and operated and continue to call Green Bay, Wisconsin home to our corporate headquarters.

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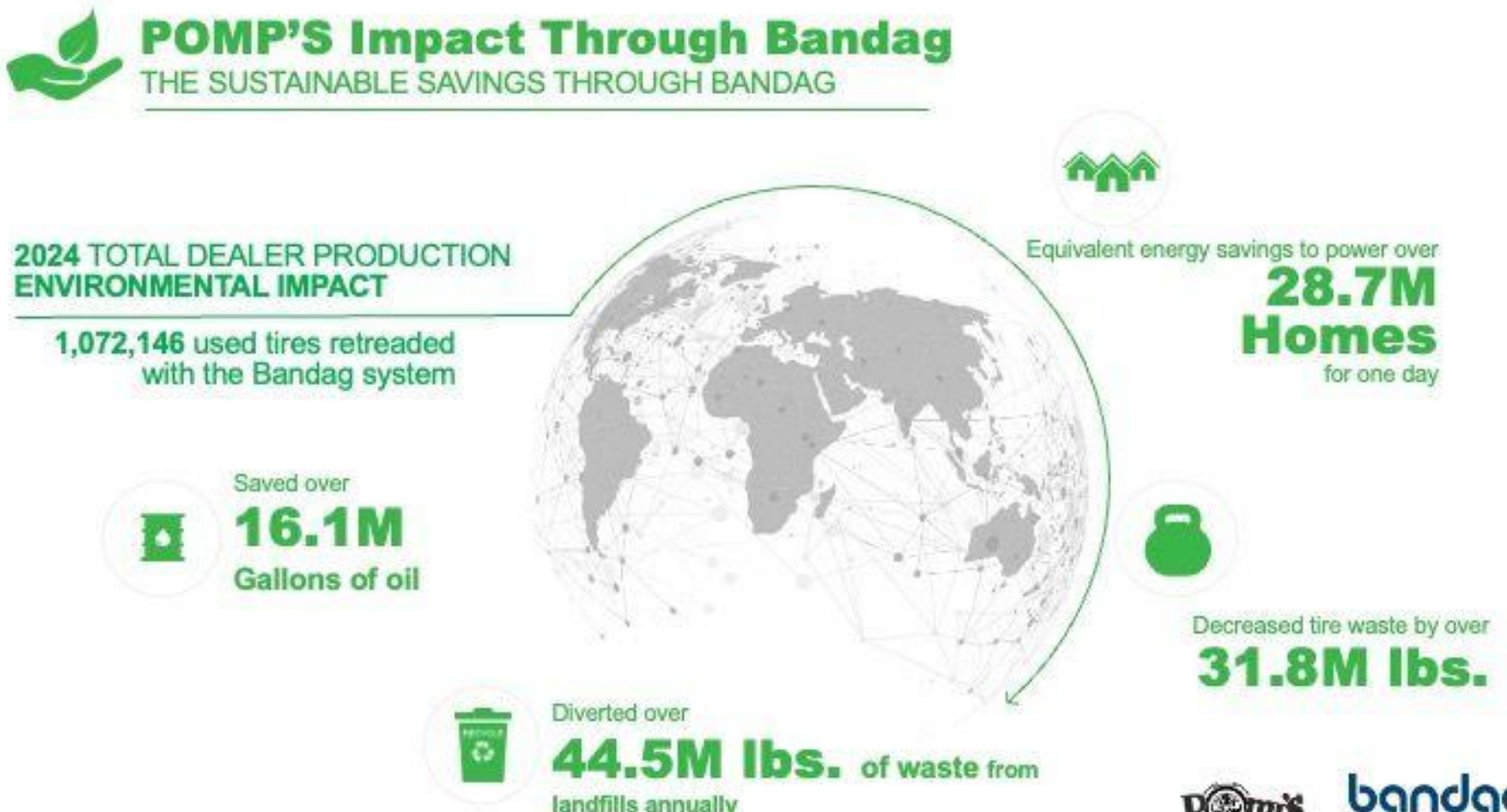
Pomp’s Tire Service

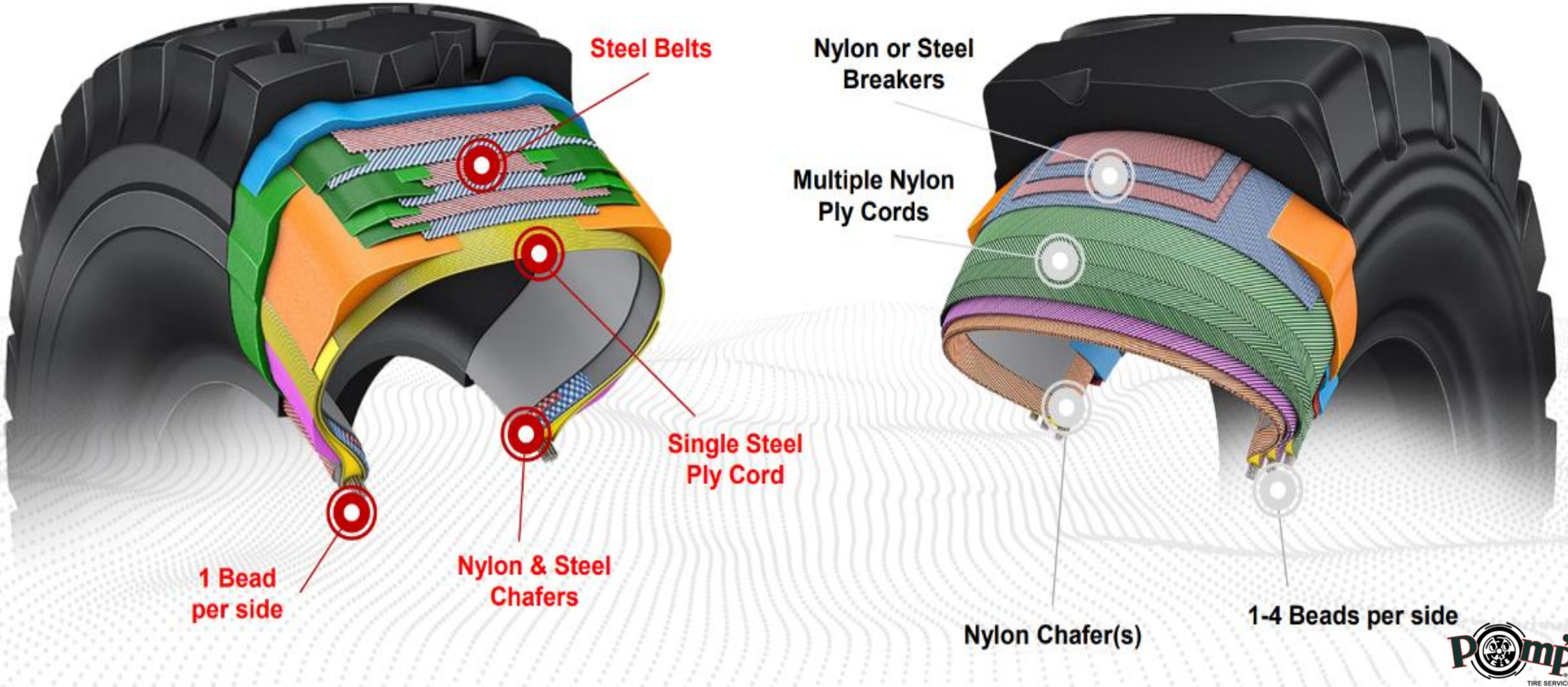


Tire Expense

Respect your tires…….

- **Top mining expenses:**
  1. **Vehicles**
  2. **Personnel**
  3. **Fuel**
  4. **Tires**

Major Differences Between Radial & Bias Tires



Reading the Sidewall

1. Brand Name
2. Bridgestone Specification Code
3. Pattern Name
4. Serial Number
5. Tire Size, Star Rating or Ply, Tubeless or Tube Type

Examples Spec Codes

E

OFF THE ROAD
EARTHMOVING
TYPE 2-A
CUT RESISTANT

D

OFF THE ROAD
LOADER & DOZER
TYPE 2-A
CUT RESISTANT

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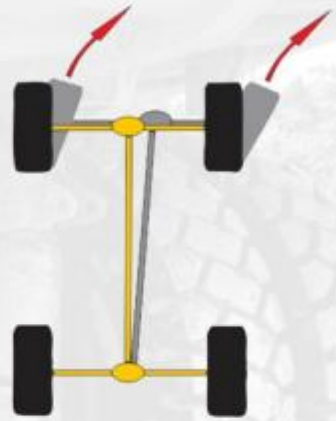
Four Basic Functions of a Tire

Support The Load

Transfer Traction & Braking Forces

Absorb Road Shocks

Changing & Maintaining Direction of Travel



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Tire Selection

Factors Influencing Proper Tire Selection

Machine Specs

- Capacity
- Max Speed
- Horsepower
- Standard Tire Size

Performance Expectations

- Long Wear Life
- Cut Resistance
- Traction
- Heat Resistance
- Casing Durability

Operating Conditions

- Climate
- Ground Conditions
- Materials Types
- Operating Distance
- Operating Speed

Keep in mind:
There is not a single tire that fits every application in a mine.

All tires have limits

Passenger Tires	65-68% of Their Rated Load
Over Road Truck Tires	92-98% of Their Rated Load

OTR Tires	100% + of Their Rated Load

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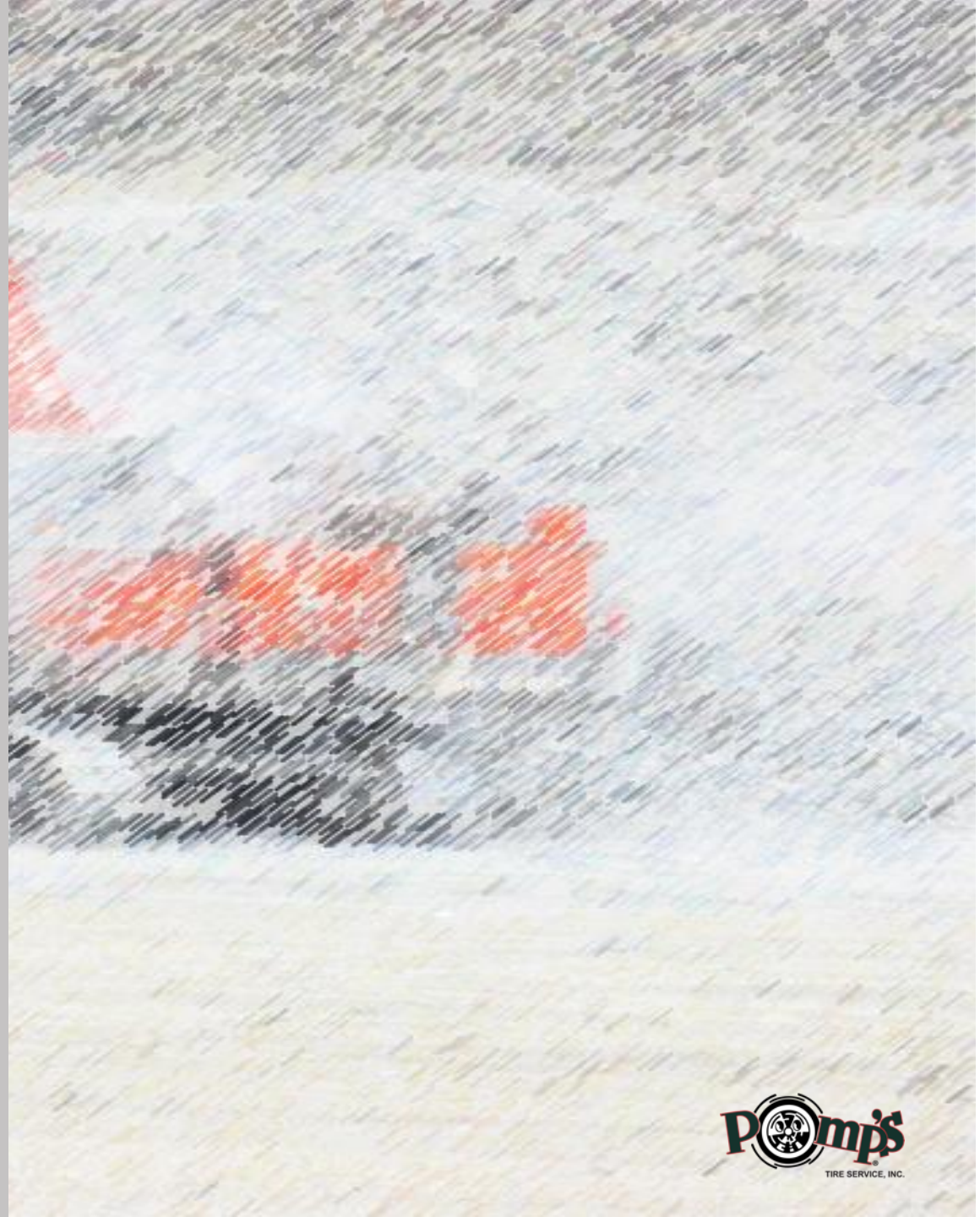
What can you control?

- Air Pressure
- Speed
- Loads
- Water
- Impacts
- Straddling Obstacles
- Pre-Shift Inspections

** Note to self-The volume of air contained in a 4000R57 haul truck tire can blow a 200lb man over a mile.

** A tire is a “pressure vessel” or in other words an air containment device. Respect a tire as you would any high pressure air tank.



Impact of Improper Inflation Pressure

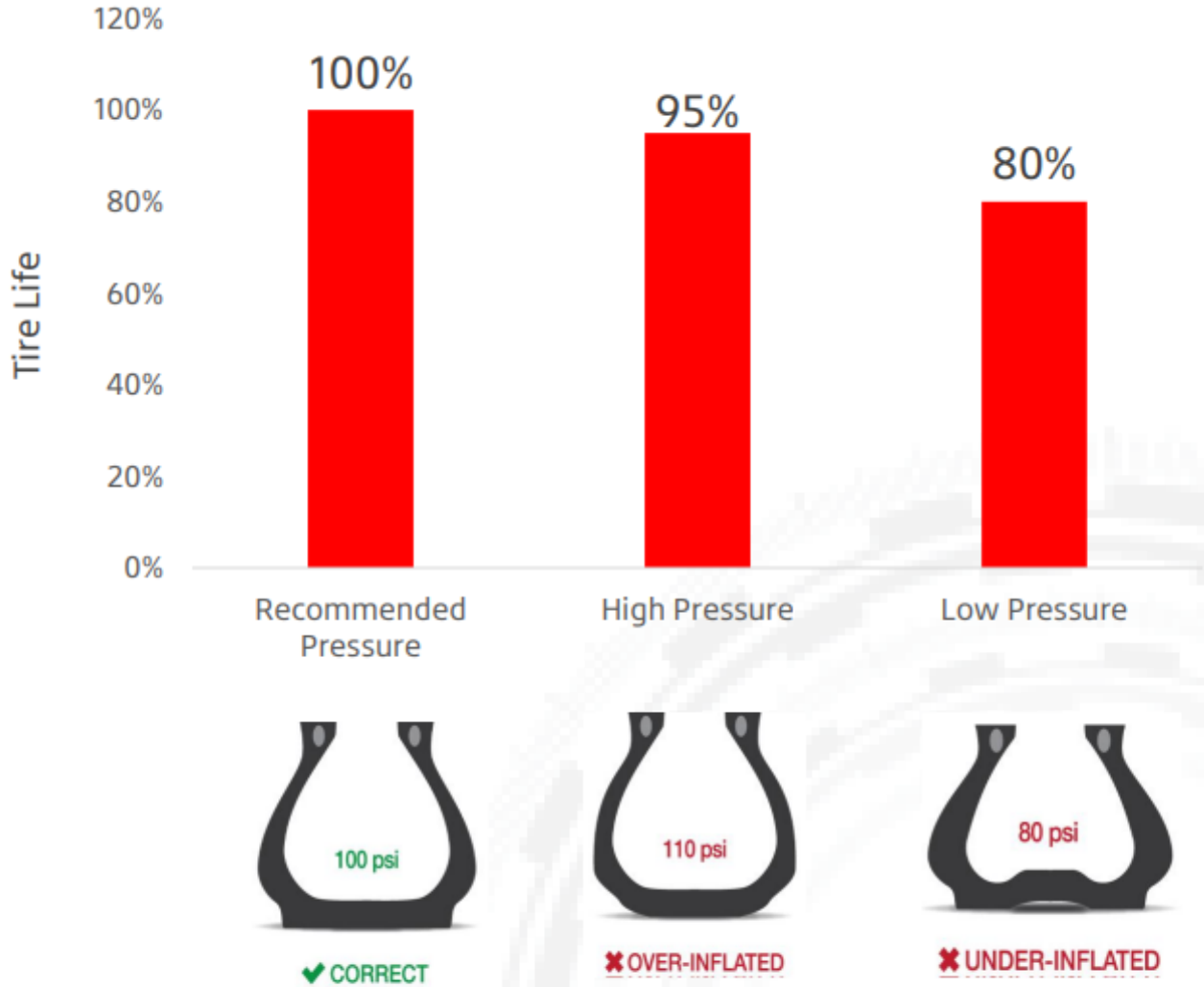
Improper inflation pressure maintenance is one of the leading causes of early tire removals

Underinflation

Running tires underinflated even for a short time may cause long-term damage and early removal.

Underinflated tires are susceptible to:

1. Uneven wear
2. Ply or belt separation
3. Loose or broken cords
4. Radial cracks
5. Excessive heat build-up due to insufficient pressure to carry the load



Overinflation

Overinflated tires are susceptible to:

1. Uneven wear
2. Impact breaks
3. Loss of traction
4. Increased “hard ride”

Respect your tires.

There is a tremendous amount of force and stored energy in the large tires you are operating. Take special care to:

- Inspect tires for significant damage before every shift.
- Report any significant damage.
- Clear the area of the tire if you hear any air leaking or popping sounds and report it immediately.

https://www.youtube.com/watch?v=HANwJp8Z5mc

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Moisture/Weather

- **If you want to cut a tire, just add water!**
  - **10X**
  - Water obscures road hazards.

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Loading/Dumping Conditions

This may be one of the most valuable rocks you have ever mined!
Can this rock contain enough ORE to offset the loss of a tire and the resulting loss of production?

- **Rocks the size of a hardhat or larger can cause severe tire damage**

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Impacts

This is a very critical area for rock cutting.

- Money and effort spent here will be well rewarded with lower tire costs and increased production.

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What concerns for tires do you see in this picture?

- *Spillage on the road.*
- *Standing water.*
- *Sharp corner without banking.*

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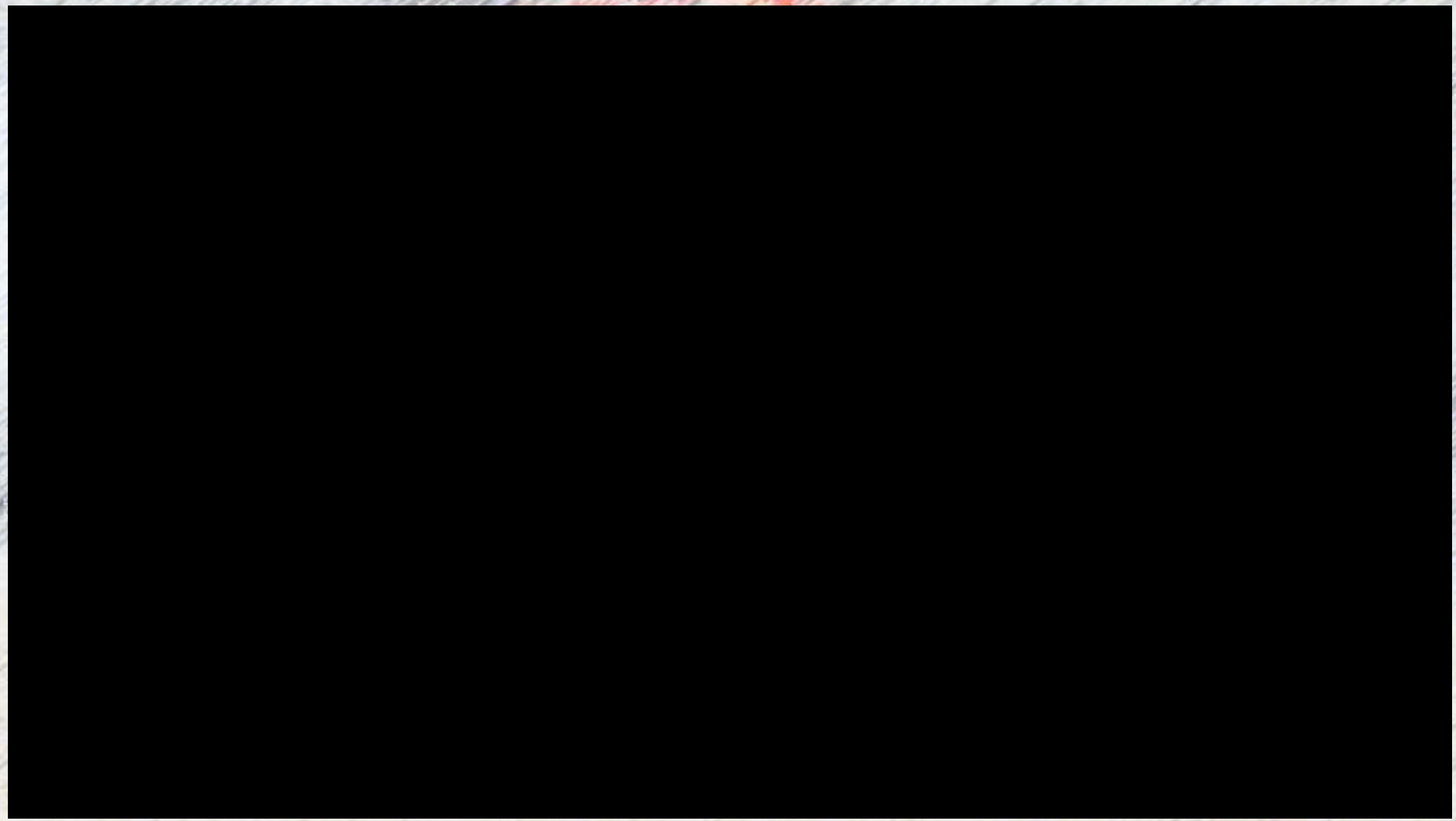
AVOID STRADDLING SPILLAGE



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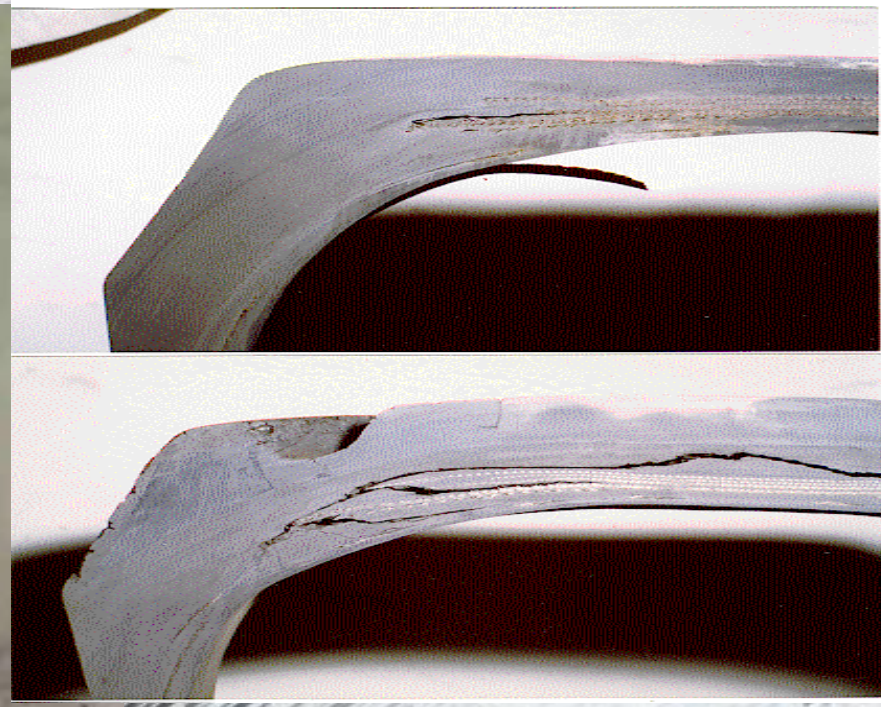
Excessive Wheel Lock and High Speed Turns

Creating Excessive Lateral G-FORCES



Shear stresses in a curve can lead to separation at the belt edges and/or between 2 plies. This is magnified when loaded and the excessive speed leads to significant weight shift in corners severely overstressing the tires.

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Walk Around Inspection

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Inspection Focus Areas

Nine Areas to Inspect

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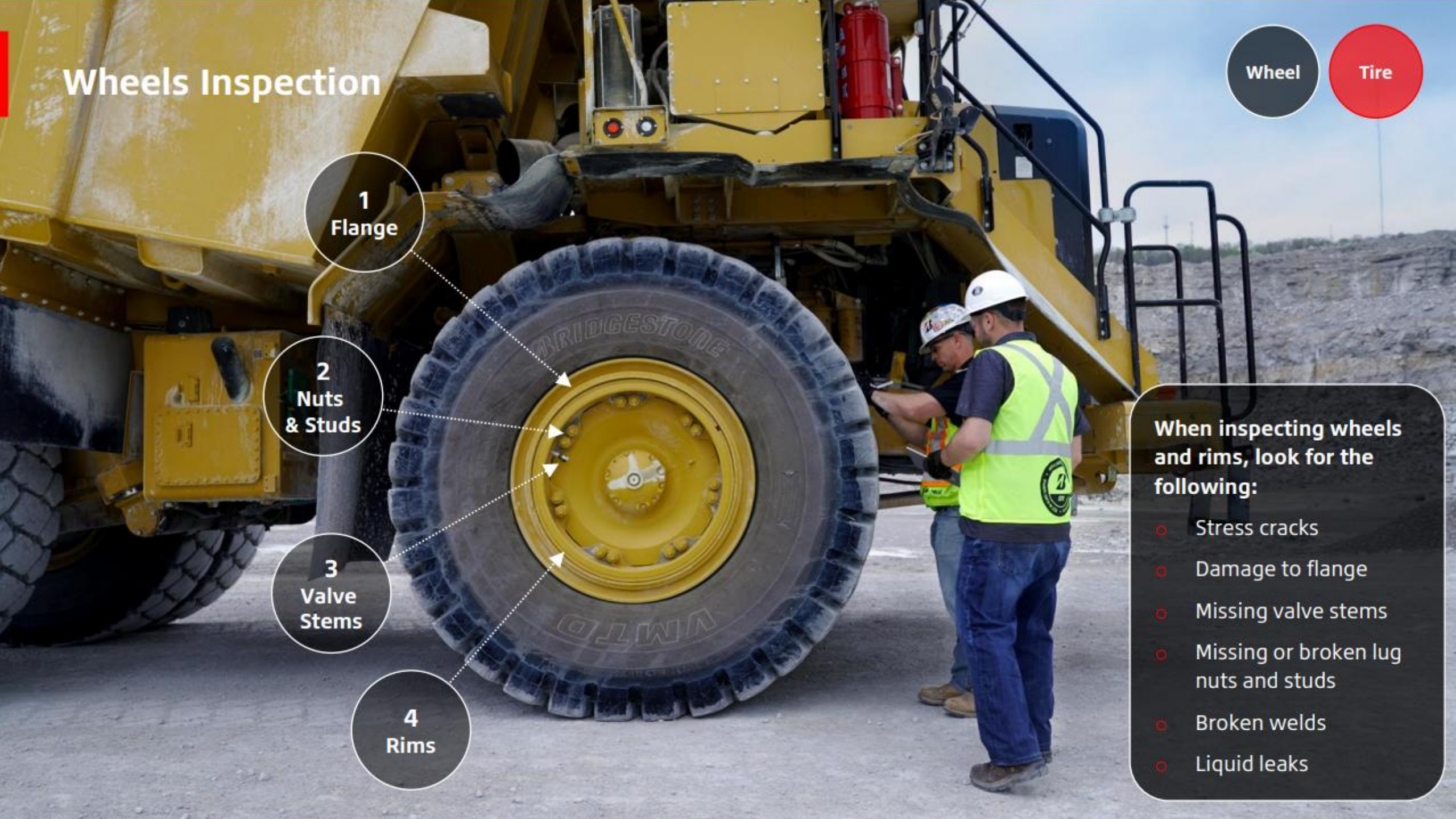
Wheels Inspection



When inspecting wheels and rims, look for the following:

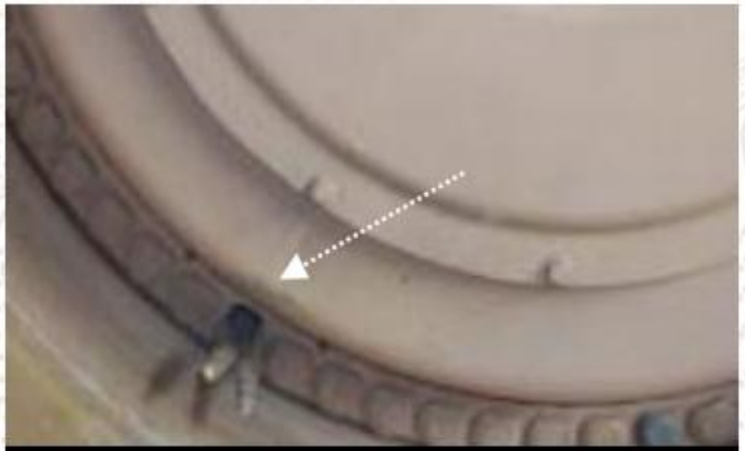
- Stress cracks
- Damage to flange
- Missing valve stems
- Missing or broken lug nuts and studs
- Broken welds
- Liquid leaks

Wheels Inspection

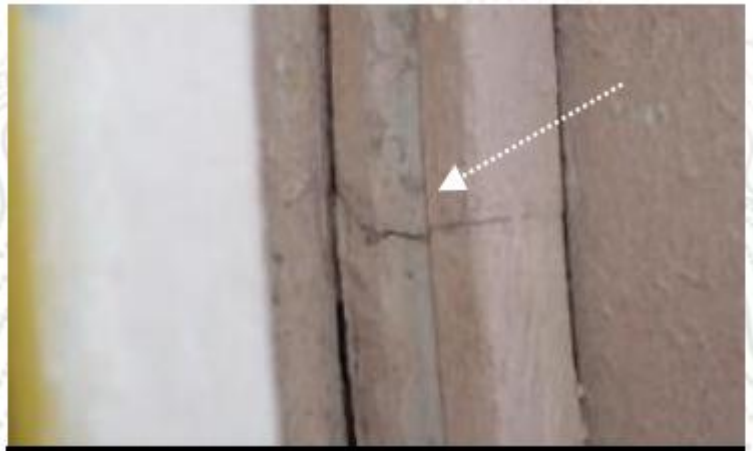
Cracked Rim Base

Cracked Flange

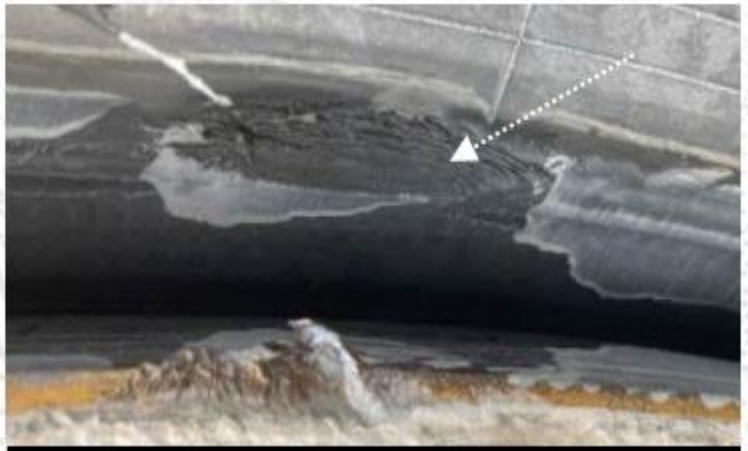
Bent Flange



Missing Valve Stem Cap



Cracked Bead Seat Band



Damaged Flange

Tire Inspection: Sidewall and Bead

When inspecting tire sidewall and beads, look for the following:

- Oil and fuel leaks
- Growing cuts, snags, splits, or cracks
- Cuts in bead from flange burrs
- Damage to bead from dirt and rocks behind flange
- Bulges (air bubble)

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Tire Inspection: Sidewall and Bead

Damage From Flange Burrs

Bead damage due to dirt and rocks behind flange

Sidewall Cuts

Bead and Sidewall Bulges

Any of these conditions need to be reported to the Tire Shop.

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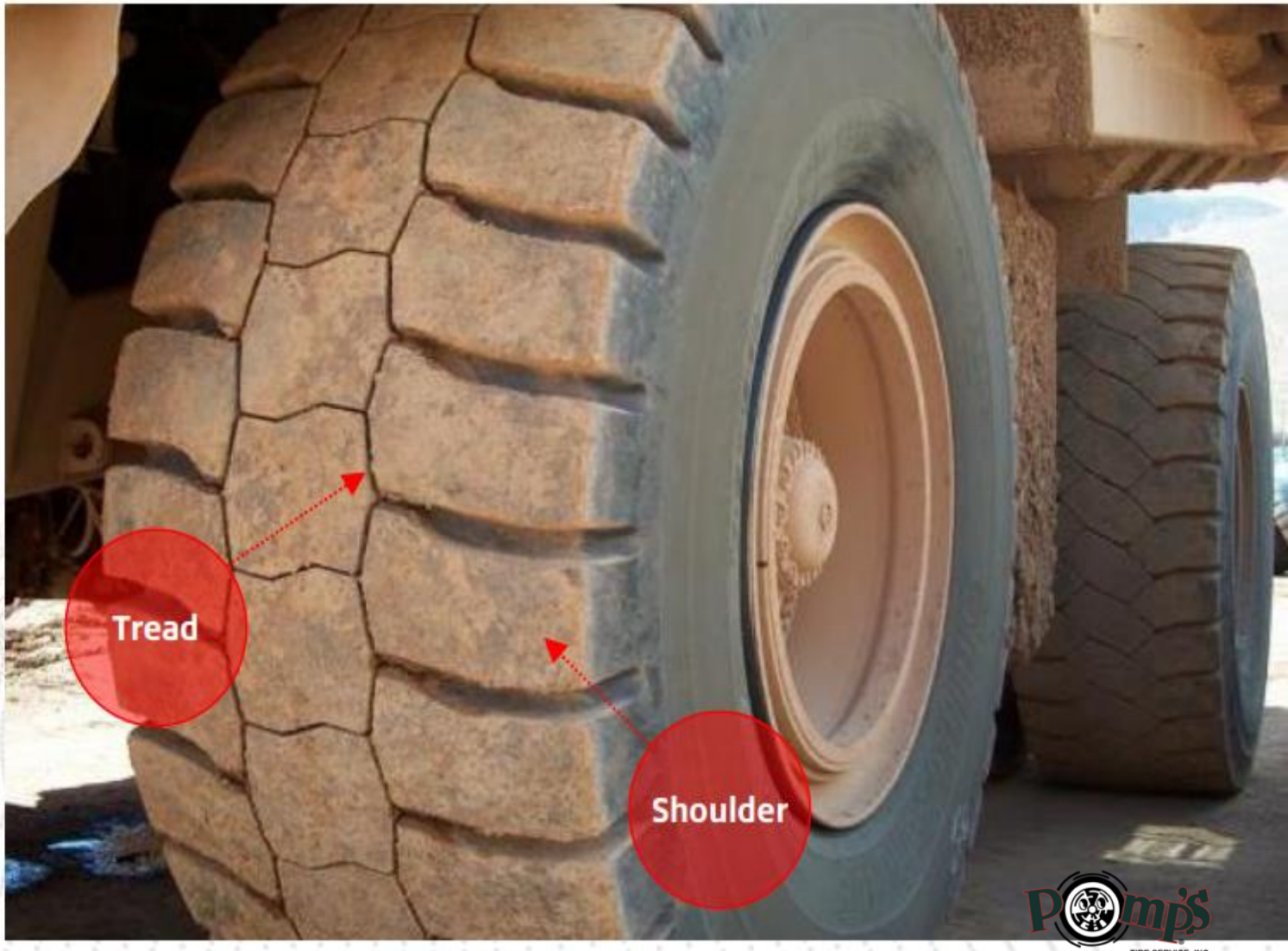
Tires Inspection: Tread and Shoulder

When inspecting tread and shoulder, look for the following:

- Irregular wear
- Flat spots
- Stone retention and/or drilling
- Rock cuts
- Exposed cords
- Bulges
- Signs of separation
- Tread tears or chunking
- Tread detachment
- Heat cracks/venting

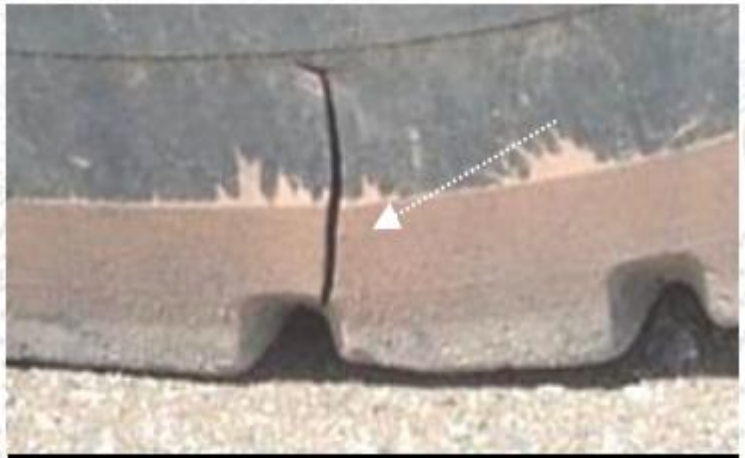


Tires Inspection: Tread and Shoulder

Exposed Cords

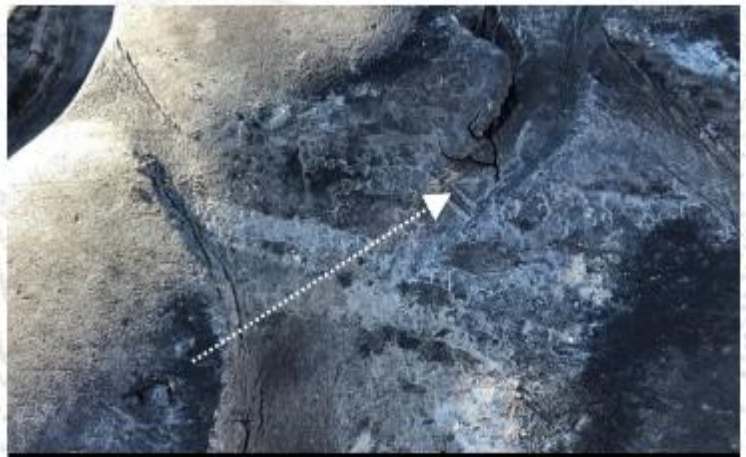
Tread/Belt Separation

Tread Chunking or Damage



Shoulder Rock Cut

Heat Vent



Deep Impact/Puncture Damage

Tread Face

Tire Inspection: Inner Side

Sidewall Bulges

Impact Damage

Hydraulic Fluid Leak

Rocks Between Duals

Any of these conditions need to be reported to the Tire Shop.

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Tire Inspection: Inner Side

When inspecting the inner side of tires and wheels, look for the following:

- Impact damage
- Rocks and other foreign objects between the duals
- Bent, damaged, or missing rock ejectors
- Oil and hydraulic fluid leaks
- Sidewall and bead bulges

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No-Go
Criteria

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Sidewall Cut to Cords

- A sidewall cut to cords requires the tire to either be scrapped or repaired

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Bulges and Air Pockets

- Bulges or air pockets in any part of the tire requires the tire to either be scrapped or repaired

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Puncture Cuts

Puncture Cuts are associated with operating conditions and more likely to occur when:

- Tires are hot
- Driving over sharp rocks
- Surface is wet

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This is truly a team effort. You are a key team player in staying safe, maintaining productivity and lowering costs!

Things to Avoid

- Berm surfing, running over spillage, standing water, soft spots, full wheel lock, excess speeds

Reminders

- Don’t overload, keep the loads centered, call for cleanup, stay away from high wall, avoid loader bucket spillage
- COMMUNICATE!!!

Result

- A safer working environment
- Production Goals Achieved
- Reduction in Operating Costs

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Summary & Closing Thoughts

OUR OTR TIRE BRANDS

Our selection features competitively priced tires from the industry's top brands.

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THANK YOU

Pomp's TIRE SERVICE, INC.

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