

Lincoln Fire & Rescue - Management Policy
Nebraska Task Force One Tire Inspection and Replacement
(MP 1000.15 1/21/2020)

Reviewed by: Brad Thavenet, Program Manager

Date: 01/21/2020

Approved by: *Fire Chief Michael Despain*

Date: 01/21/2020

Policy to define tire inspection and replacement for vehicles owned and maintained by Nebraska Task Force One.

Policy

Per the Urban Search and Rescue (US&R) Program Directive – 2019-009; During scheduled vehicle maintenance checks, the following conditions should be measured and logged in the on-line vehicle inspection form(s) for on all primary tires and the spare tire on each vehicle and/or trailer:

1. Inflation in pounds per square inch (PSI). Inflation should match the placard generally located on the inside of the vehicle being checked, or the pressure that is defined and stamped on the sidewall of the tire itself.
2. Overall condition of the tire to include a visual inspection for damage, and bulges in the sidewall of the tire as shown:
https://www.ustires.org/sites/default/files/TISB_21_USTMA.pdf
3. Excessive cracking in the tire tread.

4. Tread depth.

**Seek expert consultation from the tire vendor identified by Nebraska Task Force One (NE-TF1) on any tire that is not holding a generally consistent pressure, tires that appear damaged in any way, or tires that are nearing the defined end of service life tread depth. If damage is noted to a tire, it should be immediately placed out of service, replaced with the spare tire, and evaluated by the vendor. Always err on the side of caution; if anything seems questionable, seek consultation from the vendor.*

Tire replacement guidelines

- Heavy vehicles with a gross weight exceeding 10,000 pounds: Not to exceed ten years, or when the tires on the front axle reach a tread depth of 4/32 of an inch.
- Light & medium duty vehicles: Not to exceed five years, or when tread depth reaches 2/32 of an inch.
- Utility & boat trailers: Not to exceed three years.

Tire rotation

- All tires should be rotated per manufacturer specifications, and recommendations made by the vehicle service contractor.

Inspection and service reference information

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- FMCSA Commercial Tire Safety Tips

https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/USDOT_1168_1097_TireAdvisory.pdf

- Care and Service of Commercial Truck Tires

https://www.ustires.org/sites/default/files/CareAndService_Commercial_TruckBusTires.pdf

- Care and Service of Passenger and Light Truck Tires

https://www.ustires.org/sites/default/files/CareAndService_PassengerAndLightTruckTires.pdf

- Sidewall Indentations in Radial Tires

https://www.ustires.org/sites/default/files/TISB_21_USTMA.pdf

- Tire Storage Recommendations

https://www.ustires.org/sites/default/files/TISB_23_USTMA.pdf

- Zipper Failures

https://www.ustires.org/sites/default/files/TISB_33_USTMA.pdf

- NFPA Automotive Fire Apparatus Tire Replacement Report

[https://www.nfpa.org/News-and-Research/Data-research-and-tools/Emergency-](https://www.nfpa.org/News-and-Research/Data-research-and-tools/Emergency-Responders/Automotive-Fire-Apparatus-Tire-Replacement)

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