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## Tires

### Tire Fuel Economy Consumer Information Program: Rolling Resistance, Treadwear, and Traction

- [Report: Phase 1 - Evaluation of Laboratory Test Protocols](#), DOT HS 811 119, June 2009 [PDF, 1.1MB]
- [Report: Phase 2 - Effects of Tire Rolling Resistance Levels on Traction, Treadwear, and Vehicle Fuel Economy](#), DOT HS 811 154, August 2009 [PDF, 4.5MB]
- [Report: Dynamic Mechanical Properties of Passenger and Light Truck Tire Treads](#), DOT HS 811 270, February 2010 [PDF, 467KB]

### Tire Aging

#### Phoenix Tire Aging Study

- ["NHTSA Tire Aging Project - Phoenix Tire Collection Details"](#). 03/19/2003 [PDF,143KB]
- ["NHTSA Tire Aging Project Laboratory Test Procedures"](#). 04/13/2006 [PDF, 800KB]
- [NHTSA Phoenix Tire Dataset Introduction](#). [PDF,7KB]
- ["NHTSA Phoenix Tire Dataset" "NHTSA Phoenix Tire Dataset 4.1 Notes"](#). 10/31/2006 [PDF, 175KB]
- ["NHTSA Phoenix Tire Dataset 4.1"](#). 10/31/2006 [MS Excel, 1.19MB]
- ["NHTSA Tire Aging Project Roadwheel Removal Codes v2.2"](#) [PDF, 834 KB]
- [NHTSA Tire Aging Test Development Project Report 1: Laboratory Roadwheel Testing of Light Vehicle Tires as Purchased New and After Retrieval From Service in Phoenix, Arizona](#) October 2009, DOT HS 311 201
- [Video Clip: "Stepped-Up Speed Test Footage - Total Tread Separation"](#). [WMV, 6.7 MB]

#### Laboratory Tire Aging Results

- [Report: Estimation of Resin Reinforcement in Tire Inter-Belt Wedge Compounds](#), DOT HS 811 323, June 2010
- [Report: Oxygen Consumption Rate in New and In-Service BFGoodrich P195/.65R15 Tires](#), DOT HS 811 126, March 2009
- [Report: Tire Aging Project Phase 1, Report #1](#), DOT HS 881 201, October 2009
- [Report: Tire Aging Project Phase 1, Report #2](#), DOT HS 811 227, October 2009
- [Report: Crosslink Density and Type Distribution in the Rubber Compounds of New, In-Service, And Artificially Aged Tires](#), HS 811 265, February 2010
- [Report: Diffusion Limited Oxidation\(DLO\) Modeling of Tires During Oven Aging](#) DOT HS 811 266, February 2010
- [Report: Tire Innerliner Analysis](#), DOT HS 811 296, March 2010
- [NHTSA Tire Aging Phases 1-4 Tire Models and Testing](#): A summary of the tire models used and tests conducted during Phases 1-4 of the Tire Aging Project

#### Tire Aging Presentations

- [Presentation "What Applied Research Has Learned From Industry About Tire Aging"](#) . [PDF, 518 KB]
- [Presentation "Design of Experiment - Tire Aging"](#). [PDF, 238 KB]

### Nitrogen Inflation

- [The Effects of Varying the Levels of Nitrogen in the Inflation Gas of Tires on Laboratory Test Performance](#), March 2009 [PDF, 1.01MB]

### Tire Pressure Monitoring Systems

[Other NHTSA Sites](#) [Safercar.gov](#) [TrafficSafetyMarketing.gov](#) [EMS.gov](#) [911.gov](#) [StopImpairedDriving.org](#) [Distraction.gov](#) [Cars.gov](#)

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