

2007 SAE Government/Industry Meeting

**Noncompliant
Safety Equipment**

Tires and TPMS



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May 14, 2007



**Passenger and Truck Tire
Enforcement Program**



OVSC Tire Compliance Program



- FMVSS No. 139
 - Becomes mandatory on September 1, 2007
 - The snowflake symbol may be used for properly certified snow tires after September 1, 2008
 - Endurance & low pressure test speed reduced to 110 kph
 - All changes mandatory by September 1, 2009
 - TIN on intended outboard sidewall
- FMVSS No. 119
 - LTs relocated into FMVSS No. 139
 - No change on MT, HT and MC tires
- FMVSS No. 109
 - Radials relocated into FMVSS No. 139
 - We will not test any bias ply tires in the compliance test program

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Tire Safety Standard Upgrades



Summary of Performance Test Upgrades For PC/LT Tires	Previous FMVSS No. 109 Passenger car (PC) tires	Previous FMVSS No. 119 Large, light truck (LT), & motorcycle tires	(Upgraded Tire Standard) FMVSS No. 139 PC & LT tire on vehicles with GVWR <10,000 lbs
High Speed Test	At 88% max load, run for 30 minutes at 121 kph (75 mph), 30 minutes at 129 kph (80 mph), 30 minutes at 137 kph (85 mph)	No High Speed Test for Truck Tires Same as 109 for Motorcycle Tires	At 85% max load, run for 30 minutes at 140 kph (87 mph), 30 minutes at 150 kph (93 mph), 30 minutes at 160 kph (99 mph)
Endurance Test	Run at 80 kph (50 mph) for 4 hours at 85% max load, 6 hours at 90% max load, 24 hours at 100% max load	For LT tires: Run at 80 kph (50 mph), for 7 hours at 75% max load, 16 hours at 97% max load, 24 hours at 114% max load	Run at 120 kph* (75 mph), for 4 hours at 85% max load, 6 hours at 90% max load, 24 hours at 100% max load * 110 kph (68 mph) for snow tires
Low Pressure Performance Test	N/A	N/A	Run at 120 kph* (75 mph) for 90 minutes at 100% max load at reduced pressure depending on tire max pressure * 110 kph (68 mph) for snow tires

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Tire Enforcement



- Annual Compliance Program
 - 139: 172 sets of tires; 119: 38 sets of tires
 - Annual revisions to reflect market trends
 - Imported tires are a major focus
 - Hired Engineer
 - Tire compliance and related regulations
 - 40% of tires tested in compliance/UTQGS are imported
- Field Inspections/Outreach
 - FMVSS No. 139 Workshop
 - AAPEX, MEMA, SAE, SEMA
 - Customs outreach / Education
 - Currently conducting field inspections of noncompliant commercial vehicle tires

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FMVSS No. 139 Compliance



- Compliance to FMVSS No. 139
 - 100% of all PC and LT tires must be certified to the marking requirements on or after 9/1/2007
 - Non-snow PC and LT may be optionally certified for performance before 9/1/2007
 - 100% of all non-snow PC and LT must be certified on or after 9/1/2007
 - Snow PC and LT tires may be optionally certified before 9/1/2008
 - 100% of all Snow PC and LT tires must be certified on or after 9/1/2008
 - All PC and LT tires must have the complete TIN on the intended outboard sidewall of the tire and either a partial or full TIN on the other sidewall on or after 9/1/2009

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Tire Enforcement



- Emphasis on market diversity for 119 and 139
 - Increase in percentage of imported tires
 - Increase in number of tires tested
 - Compliance tires are purchased from the market and shipped to the test labs
- Compliance testing challenges
 - There is no visible means of identifying to which standard a tire has been certified
 - Date of manufacture, date of standard, and snow flake symbol are only easy indicators of standard for certification

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FMVSS No. 139 Enforcement Plan



- To test all PC and LT radials to 139 as if in 2009 and beyond
- All tests will be “indicant” tests
 - Manufacturers will be contacted for all failures, and safety standard to which this tire has been certified will be requested
- If tire was
 - Not certified to FMVSS No. 139, a 109 or 119 test will be performed on the same make/model
 - Certified to FMVSS No. 139, a noncompliance investigation will be opened
- Processing of 2006 Reports
 - Indicant test reports will have neither Pass nor Fail for compliance
 - OVSC will compliance test the “failed” indicant test tire to FMVSS Nos. 109 or 119, which will be full compliance tests with results, Pass or Fail
 - An investigation will be pursued if failure was to certified standard

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Test Procedure – (TP-139-03)



- Test Procedure was updated recently
 - Timely promulgation of changes is a priority
 - Updates from 139-workshop discussions
 - Some clarifications from first year of testing
 - Available at NHTSA website: <http://nhtsa.gov/>
 - Click on Vehicles & Equipment, and then on Test Procedures in the left column

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Future Rulemaking Items



- Agency considering possible truck tire rulemaking
 - High speed and endurance tests
 - Load ranges to include
 - New tires and retreaded tires
 - Bias Ply tires

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Tire Pressure Monitoring Enforcement Program



OVSC FMVSS 138 (TPMS) Compliance



Final Rule April 8, 2005, Response to Petitions September 7, 2005
PC, MPV, Trk & Bus, GVWR ≤ 10,000 lb (4,536 kg), tire(s) 25% underinflated

Phase-in

- October 5, 2005 to August 31, 2006 – 20% ^[1]
- September 1, 2006 to August 31, 2007 – 70% ^[2]
- Written instructions – September 1, 2006
- September 1, 2007 – 100% ^[3]
- Malfunction indicator lamp (MIL) – September 1, 2007 ^[4]

MY 2006 status: 14 manufacturers reported, range of 19.6% (carry-back credits needed) to 43.8%

^[1] Based on average annual production 9/1/2002 and before 10/5/2005 or 10/5/2005 and before 9/1/2006.

^[2] Based on average annual production 9/1/2003 and before 9/1/2006 or 9/1/2006 and before 9/1/2007

^[3] Small volume (<5,000) manufacturers - 0% first 2 years, 100% 9/1/2007; Final Stage and alterer - 0% first 3 years, 100% 9/1/2008

^[4] The manufacturer may voluntarily elect to certify to the MIL requirements prior to this date

OVSC FMVSS 138 (TPMS) Compliance



OVSC Testing

MY 2006: All passed

- Chrysler 300
- Ford Expedition
- Mazda RX-8
- Nissan Pathfinder
- Nissan Titan
- VW Passat

MY 2007: Scheduled

- Toyota Camry completed (passed)
- Acura MDX
- BMW X3
- Chevrolet Colorado
- Hyundai Entourage
- Jeep Compass
- Suzuki SX4

TPMS component suppliers on tested vehicles: Alps Electric, Calsonic Kansei, Denso, Ford, Schrader, Siemens VDO, Pacific Industrial Co.

Test Reports available at NHTSA website:

<http://www.nhtsa.gov/cars/problems/comply/>

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QUESTIONS?



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