



Regulatory Advisory

November 2012



Mail-Out #MSC 12-26

TRACTOR-TRAILER GREENHOUSE GAS (GHG) REGULATION CLARIFICATION OF LOW ROLLING RESISTANCE TIRE REQUIREMENTS

The Air Resources Board (ARB or Board) issued a [Regulatory Advisory, Mail-Out #MSC 12-19](#)¹, in September 2012 that explained how the low rolling resistance tire requirements of the regulation will be implemented for 2010 model year and older tractors. This advisory supplements Mail-Out #MSC 12-19 by explaining how the low rolling resistance tire requirements of the regulation will be implemented for: (1) tractors that use 2 or more open shoulder drive tires, and (2) 2011 model year and newer tractors and trailers that use retreaded tires.

- (1) Tractors using 2 or more open shoulder drive tires: The regulation requires tractors that use 2 or more open shoulder drive tires to use SmartWay verified low rolling resistance tires by January 1, 2013. This advisory clarifies that tractors using new non-SmartWay open shoulder drive tires manufactured before January 1, 2013², can continue to use those tires for the useful life of that tread, or until January 1, 2015, whichever comes first. Any new open shoulder drive tire manufactured after January 1, 2013, must be a SmartWay verified low rolling resistance tire. This advisory also clarifies that tractors using non-SmartWay open shoulder *retreaded* tires manufactured prior to January 1, 2014, may continue to use those tires for the useful life of that tread, or until January 1, 2016, whichever comes first. Any open shoulder retreaded drive tire retreaded after January 1, 2014, must be capped with a SmartWay verified low rolling resistance retread material on any casing.
- (2) 2011 model year and newer tractors and trailers using retreaded tires: The regulation requires 2011 model year and newer tractors and trailers to use SmartWay verified low rolling resistance tires beginning January 1, 2010. This advisory clarifies that 2011 model year and newer tractors and trailers using retreaded tires comprised of a SmartWay casing capped with any retread material prior to January 1, 2013, can continue to use those tires for the useful life of the tread or until January 1, 2015 for tractors and January 1, 2017 for trailers, whichever comes first. Any tire retreaded after January 1, 2013 must be capped with a SmartWay verified low rolling resistance retread material on any casing.

¹ Regulatory Advisory, MSC 12-19 (<http://www.arb.ca.gov/cc/hdghg/regulation.htm>)

² The manufacturing dates in this advisory are determined by the 4-digit date code on the tire sidewall.

Regulation Background

On December 12, 2008, the Board approved for adoption the regulation (title 17 California Code of Regulations sections 95300-95312) to reduce GHG emissions from long-haul tractor-trailer combination vehicles operating in California. The regulation applies to 53-foot or longer dry-van and refrigerated-van trailers (box-type trailers) and the tractors that pull them on California highways. The regulation requires tractor-trailers operating in California to utilize tractors and box-type trailers that are either U.S. EPA SmartWay certified, or retrofitted with SmartWay verified aerodynamic devices (typically skirts, tail devices or undercarriage devices for the trailer) and low rolling resistance tires on the tractor and trailer that meet specified fuel efficiency improvements. SmartWay verified low rolling resistance tires include new tires and retreads.

The regulation requires owners of affected tractors and trailers to meet the following requirements with respect to low rolling resistance tires:

- 2011 model year and newer affected tractors (sleeper cabs and day cabs) and trailers must use SmartWay verified low rolling resistance new tires or SmartWay verified retread tires, beginning in 2010.
- 2010 model year and older affected tractors must use SmartWay verified low rolling resistance new tires or SmartWay verified retread tires by January 1, 2013.
- Affected tractors that use 2 or more open shoulder drive tires must use SmartWay verified low rolling resistance tires by January 1, 2013.
- 2010 model year or older affected trailers (except 2003 through 2009 model year refrigerated van trailers) must use SmartWay verified low rolling resistance tires by January 1, 2017.
- 2003 through 2009 model year refrigerated van trailers must use SmartWay verified low rolling resistance tires beginning January 1, 2018 through January 1, 2020, depending on the trailer model year.

A summary of the compliance deadlines of the low rolling resistance tire requirements of the regulation is shown in the attached tables (Attachment).

A listing of SmartWay verified low rolling resistance tire and retread models is available on the U.S. EPA website at: <http://www.epa.gov/smartway/technology/tires.htm>

More Information

For further information about the regulation, training, outreach efforts, compliance tools or the full text of the Tractor-Trailer GHG regulation, please visit <http://www.arb.ca.gov/msprog/truckstop/truckstop.htm> or <http://www.arb.ca.gov/cc/hdghg/hdghg.htm> or call 866 6DIESEL (866 634-3735), or email us at 8666diesel@arb.ca.gov.

Attachment

Attachment

Tractor Tire Requirements Summary Tables

The following tables provide an overview of the tractor tire requirements of the California Tractor-Trailer Greenhouse Gas Regulation. The regulation requires tractors that pull 53-foot or longer box type trailers in California to use U.S. EPA SmartWay verified low rolling resistance tires by specific deadlines which are based on the model year of the tractor and the type of tire needed.

Tractors: 2010 Model Year and Older

Compliant Tires (Except Open Shoulder Drive Tires)

Type	Date Required	New Tire		Retreaded Tire	
		DOT Date Code on Tire Sidewall		Retread Date Code on Tire Sidewall	
		5312 or earlier	0113 or later	5312 or earlier	0113 or later
Steer and Drive (except Open Shoulder)	January 1, 2013	Any tire until 1/1/2015	SmartWay Verified Model	Any retreaded tire until 1/1/2015	SmartWay Verified Retread on any casing

Tractors: 2011 Model Year and Newer

Compliant Tires (Except Open Shoulder Drive Tires)

Type	Date Required	New Tire		Retreaded Tire	
		DOT Date Code on Tire Sidewall		Retread Date Code on Tire Sidewall	
		All dates		5312 or earlier	0113 or later
Steer and Drive (except Open Shoulder)	January 1, 2010	SmartWay Verified Model		Any retreaded tire with a SmartWay casing until 1/1/2015, or a SmartWay Verified Retread on any casing	SmartWay Verified Retread on any casing

All Tractors

Compliant Open Shoulder Drive Tires (2 or more)

Type	Date Required	New Tire		Retreaded Tire	
		DOT Date Code on Tire Sidewall		Retread Date Code on Tire Sidewall	
		5312 or earlier	0113 or later	5213 or earlier	0114 or later
Open Shoulder Drive Tires	January 1, 2013	Any tire model until 1/1/2015	SmartWay Verified Model	Any retreaded tire until 1/1/2016	SmartWay Verified Retread* on any casing

* If not available, replace with new SmartWay Verified Tire.

Trailer Tire Requirements Summary Tables

The following tables provide an overview of the trailer tire requirements of the California Tractor-Trailer Greenhouse Gas Regulation. The regulation requires 53-foot or longer box type trailers that are pulled by heavy-duty tractors in California to use U.S. EPA SmartWay verified low rolling resistance tires by specific deadlines which are based on the model year of the trailer and the type of tire needed.

Trailers: 2010 Model Year and Older

(Except 2003-2009 model year refrigerated van trailers, with 2003 model year or later transport refrigeration unit (TRU) engine)

Compliant Tires

Date Required	New Tire	Retreaded Tire
January 1, 2017	SmartWay Verified Model	SmartWay Verified Retread on any casing

Trailers: 2003 - 2009 Model Year Refrigerated Van Trailers with 2003 or Later Model Year TRU Engine

Compliant Tires

Trailer Model Year	Date required	New Tire	Retreaded Tire
2003-2004	January 1, 2018	SmartWay Verified Model	SmartWay Verified Retread on any casing
2005-2006	January 1, 2019		
2007-2009	January 1, 2020		

Trailers: 2011 Model Year and Newer

Compliant Tires

Date Required	New Tire	Retreaded Tire	
	DOT Date Code on Tire Sidewall	Retread Date Code on Tire Sidewall	
	All dates	5312 or earlier	0113 or later
Beginning January 1, 2010	SmartWay Verified Model	Any retreaded tire with a SmartWay casing until 1/1/2017, or a SmartWay Verified Retread on any casing	SmartWay Verified Retread on any casing