



**REPLACEMENT OF TIER 1 & TIER 2, DIESEL AG ENGINES:  
CHECK BEFORE YOU BUY!  
NOT ALL TIER 4 ENGINES MEET THE NEW EMISSION LIMITS**

**If you own or operate a Tier 1 or Tier 2 diesel Ag engine, the following information is important to you!**

On August 1, 2013, the Ventura County Air Pollution Control District released an advisory informing owners and operators of agricultural (Ag) engines 50 BHP and greater of the upcoming California Air Resources Board's *Air Toxic Control Measure for Stationary Compression Ignition Engines* (ATCM) requirement to replace Tier 1 and Tier 2 Ag engines, beginning December 31, 2014 for engines rated at 175 BHP and greater, and after December 31, 2015 for engines rated at 50 to 174 BHP.

**Check Before You Buy!**

The previous advisory stated that Tier 1 and Tier 2 engines should be replaced with an Interim Tier 4 Engine or a Tier 4 engine. The purpose of this advisory is to inform owners and operators of Ag engines that not all Tier 4 engines will meet the upcoming Particulate Matter (PM) emission standard for Ag engines. Although most will comply, some earlier model Tier 4 and Interim Tier 4 engines may not meet the upcoming emission standards.

Check before you buy, to be sure that any Tier 4 engine you purchase meets the applicable emission standard for that engine BHP rating. Don't spend money on an engine that does not comply with the upcoming emission limits. Another option is to install an electric motor in place of a diesel engine.

The table below shows Ag engine emission standards and due dates, by BHP rating:

<b>Emission Standards Tier 1- and Tier 2-Certified Greater than 50 BHP In-Use Stationary Diesel-Fueled Engines Used in Agricultural Operations. See ATCM Sections 93115.8(b)(3) and (4)</b>			
<b>BHP Rating</b>	<b><i>Compliance On or After December 31</i></b>	<b><i>Diesel PM - Not to Exceed (g/bhp-hr)</i></b>	<b><i>HC, NOx, NMHC+NOx, and CO - Not to Exceed (g/bhp-hr)</i></b>
Greater Than 50, But Less Than 75	2015 or 12 years after the date of initial installation, whichever is later	0.02	Off-Road CI Engine Certification Standards for an off-road engine of the model year and maximum rated power of the engine installed to meet the applicable PM standard.
Greater Than or Equal to 75, But Less Than 175	2015 or 12 years after the date of initial installation, whichever is later	0.01	
Greater Than or Equal to 175 But Less Than or Equal to 750	2014 or 12 years after the date of initial installation, whichever is later	0.01	
Greater Than 750	2014 or 12 years after the date of initial installation, whichever is later	0.075	

(Over)

## **Tier 1 and Tier 2 Engines**

The ATCM prohibits the operation of Tier 1 and Tier 2 Ag engines after December 31, 2014 for engines rated at 175 BHP and greater, and after December 31, 2015 for engines rated at 50 to 174 BHP. The compliance dates for some Tier 2 engines may be extended (with APCD approval) to no more than 12 years after the date of initial installation of the engine. "Date of initial installation" for a diesel agricultural engine is defined in the ATCM as, "one year from January 1 of the engine model year". In other words, the following January. For example, for a 2006 model year engine, the District will assume the date of initial installation is January 1, 2007. Your APCD engine registration specifies the tier designation and compliance date.

## **Funding Available**

The APCD will have a limited amount of funding available to qualified applicants to help purchase a new engine or electric motor in order to comply with the upcoming diesel Ag engine emission limits. Please contact Chris Frank with the APCD at (805) 645-1409 as soon as possible to discuss the funding process in further detail.

## **APCD Enforcement Program**

All diesel Ag engines, rated at 50 BHP or greater, must be registered with the APCD, including new replacement engines. Electric motors do not require registration. Be advised that the APCD will take enforcement action against owners of unregistered Ag engines and owners of Tier 1 and Tier 2 engines operated after their compliance date. Owners of unregistered Ag engines or, Tier 1, or Tier 2 Ag engines will be issued Notices of Violation and monetary penalties will be sought. The California Health and Safety Code allows penalties of up to \$1,000 per day for each day of violation. Contact Dan Searcy at 805/645-1494 regarding the APCD's Enforcement Program for unregistered or non-compliant Ag engines.

## **Agricultural Engine Registration Program**

District Engineering staff are available to assist with and explain the registration process. Ag engine registration forms can be downloaded on the District website at [www.vcapcd.org](http://www.vcapcd.org). Contact Laura Kranzler at 805/645-1401 for additional information regarding registration of Ag engines.