

Products Verifications of CARB

Engine Control Systems Combifilter

The ARB has verified Engine Control Systems Combifilter for 2007 or older model year diesel engines used in off-road applications operating on standard ultra low sulfur diesel fuel or bio-diesel (B20). The Combifilter system employs an actively regenerated uncatalyzed diesel particulate filter to achieve a 85 percent reduction in particulate matter emissions, qualifying it for a Level 3 verification. Specific engine families and conditions for which the Combifilter has been approved may be found in the Executive Order below.

Date	Letter	Attachment	Label
April 24, 2007	DE-04-012-01	Attachment	
December 13, 2004	DE-04-012		

Engine Control Systems Purifilter L

The ARB has verified the Engine Control Systems Purifilter for specific 1994 through 2004 model year diesel engines used with on-road applications operating on CARB diesel or biodiesel (B20). All of these engines are four-stroke, medium and heavy heavy-duty diesel engines, including turbo-charged or naturally aspirated, mechanically or electronically injected, and are not equipped with exhaust gas recirculation. The Executive Orders include restrictions for these verifications and a list of applications and engine families for which the device has been approved and can be found here.

Date	Letter	Attachment	Label
January 12, 2004	DE-04-001	Attachment	

Engine Control Systems Purifilter H

The ARB has verified the Engine Control Systems Purifilter for specific 1993 through 2006 model year California certified diesel engines, and specific 1994-2006 model year Federal certified diesel engines, used with on-road applications operating on CARB diesel or biodiesel (B20). All of these engines are four-stroke, medium and heavy heavy-duty diesel engines, including turbo-charged or naturally aspirated, mechanically or electronically injected, and are not equipped with exhaust gas recirculation. The Executive Orders include restrictions for these verifications and a list of applications and engine families for which the device has been approved and can be found here.

Date	Letter	Attachment	Label
September 25, 2008	DE 04-002-02	Attachment	Label

Date	Letter	Attachment	Label
		Federal Engine Attachment	
January 9, 2008	DE 04-002-01	Attachment	
January 12, 2004	DE 04-002	Attachment	

The ARB has conditionally verified the Engine Control Systems Purifier for equipment powered by certain off-road diesel engines with model years between 1996 and 2008. Approved engines are certified to a particulate matter emission level equal to or less than 0.2 grams per brake horsepower-hour, are rated to at least 50 horsepower and at most 750 horsepower, and are not equipped with exhaust gas recirculation systems..

Date	Letter	Attachment	Label
October 20, 2008	Verification Letter	Attachment	Label

Engine Control Systems Purifier Plus

The Air Resources Board verified Engine Control Systems' Purifier Plus TM as a Level 3 Plus passively and actively regenerated diesel emission control system for use with certain on-road vehicles with model years between 1993 and 2006. Approved engines are certified or equivalent to a particulate matter emission level equal to or less than 0.1 grams per brake horsepower-hour, and are not equipped with exhaust gas recirculation systems. Purifier Plus TM uses a catalyzed silicon carbide wall-flow filter for passive regeneration and electric heating elements for active regeneration. It achieves an 85 percent reduction in emissions of diesel particulate matter. Specific conditions for which Purifier Plus TM has been approved may be found in the executive order below.

Date	Letter	Attachment	Label
December 23, 2008	DE 08-010	Attachment	Label