



EMISSIONS SOLUTIONS
FOR INDUSTRIAL ENGINES

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MIRATECH V-CAT[®] Listed By EPA As Clean Diesel Emerging Technology For Marine Applications

Tulsa, OK — The patented MIRATECH V-CAT[®] DOC (Diesel Oxidation Catalyst) Kit has been placed by the U.S. Environmental Protection Agency (EPA) on the National Clean Diesel Campaign's Emerging Technology List for marine EMD engine emission reduction applications. The listing is the first step toward EPA verification of the emissions reduction system and makes the V-CAT eligible for inclusion in requests for funding through the EPA Clean Diesel program.

The V-CAT integrates a special high-strength diesel oxidation catalyst (DOC) into the exhaust manifold of EMD engines. This system addresses several challenges that have hampered previous emission control efforts: limited space, low exhaust gas temperatures, and the need to keep exhaust back-pressures low, according to Jonathan Roberts, MIRATECH Sales Manager for Locomotive and Marine Markets.

“We’ve met these challenges in V-CAT by, first, designing the system to be “plug-and-play,” integrating the catalyst directly into the exhaust manifold within the existing footprint and keeping open access to service areas – needed on EMD engines for regular maintenance. At the same time, because gases are hotter upstream from the turbocharger, integrating V-CAT into the exhaust manifold effectively addresses the issue of low exhaust gas temps. V-CAT keeps exhaust back-pressures below EMD-recommended levels by providing a large catalyst surface area in a small space, using removable, square catalyst elements featuring MIRATECH’s high-performance

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VORTEX™ substrate and proprietary catalyst coatings. V-CAT's compact, plug-and-play design could not be much simpler," Roberts said.

MIRATECH also offers customers a thermal insulation option to minimize heat loss and the amount of heat entering the space around the engine, Roberts added.

The V-CAT has been listed by EPA as a Clean Diesel Emerging Technology for marine 2-stroke, Tier 0, Tier 1, and Tier 2 turbocharged and roots blown EMD 567, 645, and 710 engine models. Pending verification, EPA has assigned V-CAT emissions reduction levels of 25% for Particulate Matter (PM), 70% for Carbon Monoxide (CO) and 50% for Hydrocarbons (HC) for marine test cycles.

Already EPA-certified for locomotive applications, V-CAT has demonstrated significantly greater emissions reduction levels in real-world use and for locomotive line-haul and switching test cycles, Roberts said.

MIRATECH expects full EPA verification of V-CAT performance in marine applications in 2010.

The Energy Policy Act of 2005 authorizes EPA to award grants and low-cost revolving loans to eligible entities to fund the costs of a retrofit technology that significantly reduces emissions through development and implementation of a certified engine configuration, verified technology, or emerging technology for marine engines, locomotives and other applications. Eligible entities include U.S. regional, state, local and tribal agencies or port authorities and certain non-profit organizations.

Last year, the Clean Diesel program funded the purchase or retrofitting of 14,000 diesel-powered vehicles and pieces of equipment, according to EPA.

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The American Recovery and Reinvestment Act of 2009 added to Clean Diesel funds an extra \$20 million for competitive grants to reduce diesel emissions through the use, development, and commercialization of emerging technologies. The Recovery Act also provided more than \$240 million in new funding to support the implementation of verified and certified diesel emission reduction technologies, as well as state-administered clean diesel grant and loan programs.

MIRATECH Corporation is a Tulsa, Oklahoma-based leader in providing environmentally sound emissions solutions for users of industrial engines worldwide. Current products offered include: NSCR and SCR catalyst systems, silencers, diesel particulate filters (DPF), active control systems used in DPF regeneration and NOx control, air/fuel ratio controllers, training programs, and technical field service.

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Supplied artwork: Please see the next page.

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Supplied Artwork



MIRATECH Logo.jpg (Approx. 4.25" x 1" @ 300 dpi (RGB))



MIRATECH V-CAT EMD12.jpg (Approx. 3.5" x 2.2" @ 300 dpi (RGB))

Suggested cutline:

The MIRATECH V-CAT[®] emissions reduction system has been listed by the EPA as a Clean Diesel Emerging Technology for marine EMD engines.



MIRATECH V-CAT.jpg (Approx. 4.3" x 5" @ 300 dpi (RGB))

Suggested cutline:

The compact MIRATECH V-CAT[®], now EPA-listed as a Clean Diesel Emerging Technology for marine applications, integrates emissions reduction directly into the EMD exhaust manifold, within the existing footprint.