

# OEM APPROVALS

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## DIESEL FUEL INJECTION EQUIPMENT MANUFACTURERS

Diesel fuel injection equipment (FIE) manufacturers fully support the development of alternative sources of fuel for compression ignition engines. In Europe and the US, as well as other countries, fuel resources such as rapeseed methyl ester (RME) and soybean methyl ester (SME), collectively known as fatty methyl esters (FAME), are being used as alternatives and extenders for mineral oil derived fuels. Furthermore, the EU Biofuels Directive 2003/30/EC requires member states to ensure that a minimum proportion of biofuels or other renewable fuels are placed on the market.

The European standard, EN 14214, provides the minimum requirements for Biodiesel quality whether used as pure Biodiesel or as a blend component. Biodiesel may be blended in quantities of up to 5% in diesel fuel according to the EN 590 specification.

The currently agreed position of all FIE manufacturers, (Bosch; Delphi; Denso; Siemens VDO Automotive; Stanadyne), is to limit the release of injection equipment for admixtures up to a maximum 5% Biodiesel. The Biodiesel must meet the standard EN 14214, with unadulterated diesel fuel meeting standard EN 590. The final product, B5, must also comply with EN 590.



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