



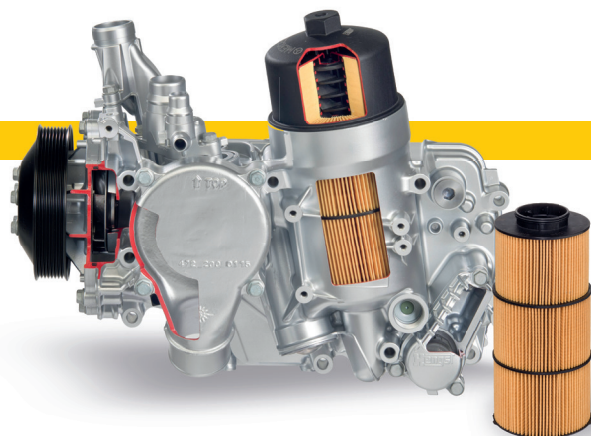
Oil filtration

Integration of functions in a compact design: Oil coolant module for Daimler's HDEP engine generation

Extensive functions and small outer dimensions: These are the advantages of the oil coolant module for the current generation of the Daimler Truck Group's HDEP (Heavy Duty Engine Platform), which is used worldwide. In close cooperation with the commercial vehicle manufacturer, Hengst designed and developed the module, which is now ready for serial production.

The HDEP oil coolant module will be used by Mercedes-Benz, Freightliner, Western Star, EvoBus and Fuso in the Euro 6 engine series OM 471 and OM 473. Innovative configuration concepts with space- and weight-saving outer dimensions allow the integration of numerous functions – with the goal of meeting current and future emissions limits for commercial vehicles, while also ensuring high efficiency and cost-effectiveness.

Using in-house production and state-of-the-art technology, Hengst is able to manufacture all the essential components, such as the cast aluminum housing, the injection molded plastic parts, and the integrated oil filter insert. The engine oil components used are the eco-friendly Energetic® oil filter insert E523H D373 and a control element that supplies the oil to the heat exchanger or directly to the filtration process as needed. Integrated interfaces likewise include the engine oil initial filling valve, engine oil top-up port and temperature sensor. Flow resistance is minimized by an efficient design with short, die-cast connecting channels and intelligent switching of the control valves.



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