

NEWS RELEASE

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Press Information

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MTU to showcase Tier 4i-compliant engines for oil and gas industry at Offshore Technology Conference

- Emissions requirements met by in-engine measures alone
- Up to 10 percent saving on fuel compared to previous engine generations
- Full power output up to heights of 13,120 ft (4,000 meters)

DETROIT—The Tognum Group will be showcasing its new-generation, [MTU](#)-branded EPA Tier 4i-compliant Series 2000 and Series 4000 diesel engines for oil and gas applications at OTC, the offshore industry trade show taking place May 2-5, 2011 in Houston, Texas (booth 5563). Both engines are able to meet EPA Tier 4 interim emissions requirements solely through the use of in-engine technology. No aftertreatment is necessary. The engines also lead the field in terms of reliability, economy and performance. These Tier 4i-compliant engines lay the foundations for the EPA's Tier 4 final regulations which will apply beginning in 2015. MTU's goal is to find an in-engine solution to meet this even more stringent requirement.

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The new generation of the Series 2000 engines for [oil and gas applications](#) covers the 1,150 to 1,560 hp (858 to 1,163 kW) power range and is used in various mechanical and electric drive applications in the exploration and production of oil and natural gas, for example in pumps, blenders, drill rigs, fracturing, hydration and nitrogen pump applications. Series 2000 engines consume less fuel than their predecessors – up to 10 percent – despite meeting the considerably more stringent emissions standards. Their performance is constant up to heights of 10,170 ft (3,100 meters) and their performance maps are optimally adjusted to suit the requirements of oil and gas applications. The life-cycle costs are lower than for the previous generation. That is a result not only of the fuel-saving factor, but also of the longer maintenance intervals for individual components. Series 2000 engines will be introduced onto the market in stages from mid-2011 as 12- and 16-cylinder units.



The new generation of the Series 4000 engine covers the 2,250 to 2,500 hp (1,678 to 1,864 kW) power range with a 12-cylinder version and is suitable for driving hydraulic fracturing or “frac” pumps. These pumps use special fluids under high pressure to fracture rocks to increase the volume and improve the efficiency in the recovery of petroleum and natural gas reserves. Series 4000 engines boast an optimum power-to-weight ratio, allowing mobile “frac fleets” – truck-mounted pump units for the oil and gas production – to stay within the maximum weight limits for highway transit. That not only brings a high degree of operational flexibility, but saves the user license charges and logistics expense. Furthermore, the engines consume up to 5 percent less fuel, despite meeting the considerably tighter emissions standards, and they provide superior torque performance compared to their predecessors. Their performance remains constant up to heights of around 13,120 ft (4,000 meters) without derating.

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MTU Series 2000 diesel engines are able to meet EPA Tier 4i emissions requirements without aftertreatment.

Pictured: 12V 2000 CX6/SX6



MTU Series 4000 diesel engines are able to meet EPA Tier 4i emissions requirements without aftertreatment.

Pictured: 12V 4000 T94

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About MTU

MTU Detroit Diesel, Inc. is the North American regional headquarters of MTU Friedrichshafen GmbH, one of the world's most important providers of diesel engines and drive and propulsion systems for ships, heavy-duty land and rail vehicles, and distributed energy. It offers a complete line of power solutions from 30 to 12,200 bhp (20 to 9,100 kW) for applications in the marine, rail, power generation, oil and gas, agriculture, mining, construction and industrial, and defense markets. MTU Detroit Diesel, Inc. is the sales and after-sales organization of the Tognum Group in North America. www.mtu-online.com

Tognum

With its two business units, Engines and Onsite Energy & Components, the Tognum Group is one of the world's leading suppliers of engines and propulsion systems for off-highway applications and of distributed energy systems. These products are based on diesel engines with up to 9,100 kilowatts (kW) power output, gas engines up to 2,150 kW, and gas turbines up to 45,000 kW.

The product portfolio of the Engines business unit comprises MTU engines and propulsion systems for ships, for heavy land, rail and defense vehicles and for the oil and gas industry. The portfolio of the Onsite Energy & Components business unit includes distributed energy systems of the brand MTU Onsite Energy and fuel-injection systems from L'Orange. The energy systems comprise diesel engines for emergency standby power, prime power and continuous power, as well as cogeneration power plants based on gas engines and gas turbines that generate both power and heat.

In 2009, Tognum generated revenue of €2.5 billion and employs more than 8,700 people. Tognum has a global manufacturing, distribution and service structure with 27 fully consolidated companies, more than 140 sales partners and over 500 authorized dealerships at approximately 1,200 locations.

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The shares of Tognum AG (ISIN: DE000A0N4P43) have been stock-exchange listed since 2007 and are included in the MDAX.



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