

## Press Information

### Contact:

Mirko Gutemann      Tognum AG  
Phone:                +49 7541 90-4741  
E-mail:                mirko.gutemann@tognum.com

Gary Mason            Tognum America Inc.  
Phone:                +1 248 560 8480  
E-mail:                gary.mason@tognum.com



## Tognum upgrades MTU Series 4000 workboat engines

- **Engines meet EPA Tier 3 requirements with in-engine technology and no need for exhaust gas aftertreatment**
- **On display at International Workboat Show 2012**
- **First engines available in summer 2013**

*Friedrichshafen, 30 August 2012.* Tognum, the specialist for propulsion and power solutions, will enhance its MTU Series 4000 Ironmen workboat engines for compliance with US EPA Tier 3 emissions regulations. As with the current generation, these new Series 4000 engines will be available with 8, 12, or 16 cylinders for use in diesel-mechanical and diesel-electric propulsion systems or for powering on-board gensets. Installed in diesel-mechanical systems, the Ironmen engines will be able to cover power requirements from 750 to 2,680 bhp (560 to 2,000 kW), while diesel-electric drives and marine gensets will deliver 650 to 2,000 kW power output. No exhaust gas aftertreatment will be needed and the first engines will be available in mid-2013. The engines will be displayed for the first time at the International Workboat Show, booth No. 2601, in New Orleans, Dec. 5-7, 2012.

This latest version of the Ironmen engines is based on today's proven MTU Series 4000 M63 long-stroke engine, which meets EPA Tier 2,

IMO Tier 2 and ZKR II emissions regulations. The new generation Series 4000 M64 engine will be EPA Tier 3-compliant using only in-engine technology, and features optimization of MTU's renowned common rail fuel injection system, turbocharging and combustion processes. Despite their very low emissions levels, the engines will boast high fuel efficiency and maintenance intervals as long as 30,000 operating hours, making them very economical to run.



Already equipped with all of the components needed for operation, such as pumps, coolers and filters, the Ironmen engines are convenient to install. In addition, on-engine resilient mounts reduce noise and vibration, thereby enhancing the comfort of the crew. Typical workboat applications are tugs, offshore supply vessels, towboats, inland waterway vessels and displacement yachts.

⇒ **Press photos can be downloaded from the  
Tognum website: [www.tognum.com/press/press-pictures](http://www.tognum.com/press/press-pictures)**

## **Tognum**

With its two business units, Engines and Onsite Energy, the Tognum Group is one of the world's leading suppliers of engines and propulsion systems for off-highway applications and of distributed power generation 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 Onsite Energy business unit supplies distributed power generation systems carrying the MTU Onsite Energy brand. These comprise diesel engines for emergency 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. Tognum's product portfolio also features fuel-injection systems built by L'Orange.

In 2011, Tognum generated revenue of around €2.97 billion and employs more than 10,000 people. Tognum has a global manufacturing, distribution and service structure with 24 fully consolidated companies, more than 140 sales partners and over 500 authorized dealerships at approximately 1,200 locations. Since September 2011, Engine Holding GmbH, a joint venture between Daimler AG and Rolls-Royce Group plc, has a majority holding in Tognum.