

PRESS RELEASE

Sustainable technologies for the Zeppelin Rental fleet Genie® mobile elevating work platforms with new Stage V engine solution delivered

Garching near Munich, 8th September 2020. Zeppelin Rental is the first rental company in Germany to add the ZT22.16D telescopic platform, (Genie® S®-65 XC™ boom lift), with stage V diesel engine to its rental fleet. Due to the coronavirus pandemic, it was only on June 1 that the European Parliament extended the transition period for the introduction of this new EU emissions regulation for diesel engines. Complying with the new requirement well in advance, Zeppelin Rental is already offering this new technology.

"The Zeppelin Group is pursuing its goal of being CO2-neutral by 2030," explains Dirk Feyerabend, Head of Central Purchasing at Zeppelin Rental. "Climate and environmental protection and responsible action play an important role for us. Consequently, sustainability and the conservation of resources naturally affect the way we invest in our rental fleet. For example, regarding high-performance MEWPs (mobile elevating work platforms) for heavy outdoor use, we are increasingly supplying new equipment with efficient hybrid technology, as well as machines that are powered by diesel engines with the lowest emissions levels possible like the Genie S-65 XC boom lifts, available under the name ZT22.16D for our customers."

European Stage V emissions regulations put clear limits on the levels of particulate matter and nitrogen oxide (NOx) emitted by combustion engines, as now applies for the first time to all engines between 19 and 560 kW. Due to the COVID-19 situation, for off-road equipment powered by engines below 56 kW and above 130 kW, the European Parliament has now extended the production deadline for engines that comply with the new standard to 1st July 2021. Their full implementation and distribution are now set for 1st January 2022. The Genie S-65 XC boom lift's 36 kW diesel engine already meets these strict EU Stage V emissions standards.

"Notably, for heavy outdoor applications, we still find that the demand for MEWPs with a

powerful diesel engine continues to be high," explains Dirk Feyerabend. "However, we are receiving increasingly more requests for machines and equipment that generate the lowest emissions levels possible. Particularly on large construction sites and in urban areas, contractors often have environmental specifications that are a prerequisite for placing an order. Demand for greener solutions with low-emissions technology is an increasing trend among our customers."

The robust Genie S-65 XC boom lifts that Zeppelin Rental has added to its fleet are ideally suited for projects with strict regulations concerning the emission of fine dust particles and nitrogen oxide (NOx). Their operation is also quieter than models equipped with an earlier-generation engine. Thanks to their high performance, a maximum working height of 21.81 m (71 ft) and horizontal outreach of 16.51 m (54 ft 2 in), these Stage V engine boom lifts will be used mainly in warehouse and power plant construction or bridge building applications. Featuring two load capacity zones, one restricted at 454 kg (1,000 lbs) and one unrestricted at 300 kg (660 lbs), these powerful Genie boom lifts offer operators the benefit of delivering their full strength in high jobsite applications.

The water-cooled Genie turbo-diesel engine complies with these new EU Stage V emissions regulations thanks to its after-treatment system, a built-in DPF (diesel particle filter) — a component that requires occasional cleaning through a process called regeneration. The regeneration process can happen passively and actively. The passive DPF regeneration occurs automatically when the engine temperature is high and the soot level has increased. During this process, the operator may only notice a slightly higher engine speed, but no noticeable degradation in performance. For Zeppelin Rental, one of the key advantages of its new Genie boom lifts' engine is its smart active regeneration system that is exclusive to all new Genie Stage V machines, and to date is the only system of its kind on the market. Four active alert levels inform the operator when regeneration is required — long before it becomes necessary. This protects the machine from damage, which is a great benefit when working on long-term rental contracts. Furthermore, it allows Zeppelin Rental to plan the regeneration cycle at the most convenient time, to maintain jobsite productivity and the uptime of its new Genie boom lifts.

For publication, free of charge. Specimen copy or note requested.

Photos source: Zeppelin Rental

Captions:

ZRD_Dirk Feyerabend

Dirk Feyerabend, Head of Central Purchasing at Zeppelin Rental

ZRD_Genie_PAB_Stage_V_Feed_01

Zeppelin Rental is the first rental company in Germany to add the Genie telescopic boom “ZT22.16D” equipped with new EU Stage V-compliant diesel engines to its fleet

ZRD_Genie_PAB_Stage_V_Feed_02

This model combines the benefits of quiet and low-emission operation

ZRD_Genie_PAB_Stage_V_Feed_03

The water-cooled Genie turbo-diesel engine complies with the new EU Stage V emissions regulations thanks to its after-treatment system, a built-in DPF (diesel particle filter)

About the Zeppelin Group

The Zeppelin Group offers solutions for the construction industry, drive systems and energy sectors as well as engineering and plant engineering; it is represented in 43 countries and regions around the world, and active at more than 220 locations. The company’s approximately 10,000 employees work together in a management holding company, six strategic business units and a strategic management center (= Zeppelin Digit): Construction Equipment Central Europe, Construction Equipment Nordics, Construction Equipment Eurasia (distribution and service of construction, mining and agricultural machinery), Rental (rental and project solutions for the construction industry and the industrial sector), Power Systems (drive and energy systems), Plant Engineering (engineering and plant engineering). All digital business is handled together within Zeppelin Digit. In the 2019 fiscal year, the Group generated revenue of EUR 3.1 billion. Zeppelin GmbH is the Group holding company. It is legally domiciled in Friedrichshafen and has its head office in Garching bei München. The Zeppelin Group is a foundation-owned company. Its roots can be traced back to the establishment of the Zeppelin Foundation by Graf Ferdinand von Zeppelin in 1908. For more information, visit zeppelin.com.

About Zeppelin Rental

From rental machines to project solutions. Being a leading provider of construction support services Zeppelin Rental ensures that its customers can work efficiently and safely. They provide customized solutions in the areas

of equipment rental services, temporary infrastructure and construction logistics. With more than 1,700 employees at more than 140 locations in Germany, Austria, the Czech Republic, Slovakia, Sweden and Denmark they serve customers in construction industry, trade, the public sector, landscaping and event. They benefit from latest technology, professional services and know-how. For more information, visit zeppelin-rental.com.

About Terex

Terex Corporation is a global manufacturer of lifting and material processing products and services delivering lifecycle solutions that maximize customer return on investment. Major Terex brands include Terex, Genie and Powerscreen. Terex solutions serve a broad range of industries, including construction, infrastructure, manufacturing, shipping, transportation, refining, energy, utilities, quarrying and mining. Terex offers financial products and services to assist in the acquisition of Terex equipment through Terex Financial Services. More information about Terex is available on its website www.Terex.com, on LinkedIn www.linkedin.com/company/terex and on Facebook www.facebook.com/TerexCorporation.

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