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**NEW GENIE® STAGE V ENGINES FEATURE INNOVATIVE
“OPERATOR-FRIENDLY” TECHNOLOGY**

*Optimized Genie® Stage V engines provide maximum productivity and power with
simplified maintenance.*

ROOSENDAAL, The Netherlands (21st July 2020) – “In addition to the required features of the new Stage V engines, the Genie Stage V engine solution utilizes proprietary, easy-to-use new ‘smart regeneration’ technology that proactively monitors the progression of soot build-up in the engine’s DPF,” says Corrado Gentile, Genie Product Manager, Terex AWP. “Only available with the Genie Stage V engine solution, this innovative technology is designed to alert operators that regeneration is needed — well in advance of the engine requiring it. This feature gives Genie equipment owners and operators the peace of mind of knowing that they do not have to worry about how to manage the regeneration process on Stage V engines — we’ve made it so that the machine does it for them.”

When the new Stage V engine emissions standards took effect on January 1st, 2019, it impacted the majority of Genie® machines equipped with engines higher than 25 hp (19 kw), including telehandlers, boom lifts and rough-terrain scissor lifts. Stage V emission regulations address the growing need in Europe for off-road engines to be more environmentally friendly with a cleaner burning engine that emits less particulate matter or pollution into the environment, enhancing quieter operation and reducing vibration. Original equipment manufacturers (OEM) had the challenge to produce machines according to the new standards from July 1st, 2020. However, due to the COVID-19 situation, this date has been extended by the European Committee by one additional year. Therefore, the new deadline for full distribution for Stage V machines is now 1st January 2022.

“Genie has already started producing machines with Stage V engines in order to allow our customers to comply with strict emission regulations as soon as possible,” says Jacco de Kluijver, Genie VP Sales & Marketing, Terex AWP, Europe, Middle East, Africa and Russia region (EMEAR). He continues: “However, in the EMEAR region, environment-friendly requirements are different depending on the country and Genie is there to adapt to these variations. For customers who do not wish or yet need to update their fleet, Genie will offer, while stocks last, a dual supply of engines. Not to forget that we are still providing machines with Stage IIIA engines for the Middle East region and some African countries, where these new emissions standards are not applicable.”

Currently in production to meet this Stage V engine standard, new Genie articulating or telescoping boom lifts and Genie rough terrain scissor lifts are equipped with a turbocharged, 3-cylinder, water-cooled 2.2 L Stage V diesel engine. New Genie telehandlers are equipped with a 4-cylinder turbocharged 2.9 L Stage V diesel engine. Exclusive to the Genie Stage V engine solution, these engines feature innovative, “operator-friendly” technology that safeguards the engine and its components, as well as simplifying maintenance tasks, without any compromise to the machine’s power, performance or productivity.

These engines are also designed to run quieter, reducing real total engine noise output and presenting a smoother engine tone. To achieve the result, Stage V engines now include DPF (diesel particulate filters), a component that requires occasional cleaning through a process called regeneration. Passive regeneration occurs automatically when engine temperatures are high and soot levels have increased.

During this process, the operator may notice only a slightly higher engine speed, but no noticeable degradation in performance.

For active regeneration, this is where the Genie technology comes into play, which to date is the only one that thanks to four different level of alerts allows operators to plan the start of the regeneration cycle at their best moment in order to maintain their productivity and minimize downtime as well as reducing the risk of DPF damage.

According to Gentile, the new Genie Stage V engine solution with smart regeneration technology has four active alert levels:

- Level 1: High soot levels (100%) have been reached, time to schedule a regeneration cycle.
- Level 2: Slows down the hydraulic boom functionality speed by 30%; only allows “turtle” speed and blocks multifunction operations.
- Level 3: Slows down the hydraulic boom functionality speed by 60%; only allows “turtle” speed and blocks multifunction operations.
- Level 4: Stowed functions disabled; the machine will only allow “turtle” speed.

Gentile says: “Our technology allows operators to select a convenient time to run a regeneration cycle after the first alert is received, minimizing downtime and mitigating the risk of issues with the machine.” He adds that Genie equipment owners and operators can also check the soot level and configure alert levels for their Genie Stage V engines via the Genie Lift Connect™ telematics solution, enabling them to know the real-time status of the DPF’s condition.

Making it easy for operators to identify machines equipped with the new Genie Stage V engines, machines are labelled with a Stage V decal on the engine cover. This decal includes a QR code that links to a certificate, enabling operators to show proof that the Genie machines meet all the requirements of the new European (EU) emissions regulations.

For more information on Genie products and services, visit www.genielift.com.

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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.