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香港版 **HONG KONG** 

MONDAY, November 7, 2022

中国日新

www.chinadailvhk.com

## Nation's mightiest rocket engine tested successfully

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Engineers in China's space industry conducted a key test of the country's most powerful liquid-propellant moon. rocket engine on Saturday, a step forheavy carrier rocket.

Developed by the Academy of launch vehicles. Aerospace Propulsion Technology testing facility in a Xi'an suburb. It to enter service around 2030. my said in a news release.

breakthrough in the research and eter of its core stage will be about 10 development of the engine, which is meters, according to designers at four times mightier than China's the Beijing academy. strongest rocket engine, which has a thrust of 120 tons.

gen and kerosene and has the larg- to a low-Earth orbit hundreds of est thruster chamber of any staged kilometers above the ground, and combustion rocket engine in the world, according to designers.

Aerospace Knowledge magazine, said such a large, powerful rocket engine must incorporate a state-ofthe art design, sophisticated com- Long March 5 - currently the most ponents and reliable manufacturing powerful Chinese rocket. techniques that can only be made by a great space power such as China.

"This kind of engine is a mustbeyond low-Earth orbit and deploy probes to deep space," he said, noting only the United States and the former Soviet Union had developed and built heavy-lift rocket engines.

Space officials have said the new spacecraft to deep space.

engine is expected to be the main propulsion on the Long March 9 rocket, a model under research and development that will be used to send Chinese astronauts to the

Upon its completion, the Long ward in the development of a super- March 9 will likely become one of the world's largest and mightiest

The super-heavy rocket is now in Xi'an, Shaanxi province, the 500- under research and development at metric-ton thrust engine's first igni- the China Academy of Launch Vehicle tion test took place at the academy's Technology in Beijing and is expected

was a "complete success", the acade- The rocket will be 93 meters tall with a liftoff weight of 4,140 tons The achievement is an important and a thrust of 5.760 tons. The diam-

The craft will be so powerful that it will be able to transport spacecraft The engine consumes liquid oxy- with a combined weight of 140 tons will also be capable of deploying spaceships weighing up to 50 tons to Wang Yanan, editor-in-chief of the moon for lunar expeditions.

Once the Long March 9 enters operation, its carrying capacity will be more than five times that of the

The Wenchang Space Launch Center in Hainan province has planned to construct new testing and support have if you want to send astronauts facilities as well as a new launchpad for the super-powerful rocket.

The Long March 9 will be crucial to realizing the nation's ambitious plans of landing its astronauts on the moon and sending large robotic