RUSSIA'S UNITED ENGINE CORPORATION DEMONSTRATES TV7-117ST ENGINE FOR IL-112V MILITARY TRANSPORT AIRCRAFT FOR THE FIRST TIME

News / Manufacturer

A full-scale specimen of the state-of-the-art TV7-117ST engine for the Il-114-300 airliner is being demonstrated for the first time ever at the exhibition stand of the United Engine Corporation at the III International Forum of Engine Building (MFD-2018) being held at VDNKh (Exhibition of Achievements of National Economy) in Moscow.

TV7-117ST is a base engine for the power unit of advanced Il-112V light military transport aircraft, and the civilian modification of the engine, TV7-117ST-01, will become the operational engine for the Il-114-300 regional passenger-carrying aircraft whose commercial output is to be revived in Russia. TV7-117ST-01 engine will also be certified as per the civilian standards.

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More powerful as compared to the previous modification TV7-117SM, TV7-117ST-01 will increase the capacity of Il-114-300 and reduce the run time of the aircraft. Operation of the unified engine on the Il-112V and Il-114-300 aircraft will enable a reduction of production costs and will become an example of military technology transfer to the civilian sector.

Bench tests of TV7-117ST on an advanced test bench of UEC-Klimov started in September 2016. A year later, in September 2017, UEC commenced the flight tests of the power unit onboard of the Il-76LL flying laboratory. The first stage was completed in December 2017. As a result, the TV7-117ST engine and the AV-112 propeller were cleared for the first flight of Il-112V.

TV7-117ST engines are entirely made of Russian parts, units and assemblies. They are jointly manufactured by a variety of UEC enterprises.

It should be recalled that the import substitution programme for manufacturing of TV3-117/VK-2500 helicopter engines designed for most Mi and Ka helicopters has been successfully implemented at UEC-Klimov since 2014. In 2015, commercial output of the VK-2500 engines was launched in Russia.

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