



Trial/Test Report Abstract

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DOK-ING MV-10 Test and Evaluation

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This abstract document contains the executive summary, summary or abstract taken without modification from the trial/test report, as well as the trial/test report table of content. Note that page numbers might not correspond

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Abstract

A test of the DOK-ING MV 10 was performed in Sweden by SWEDEC in May 2008. Performance and survivability tests were done according to the European Committee for Standardisation (CEN) Workshop Agreement "CEN Workshop Agreement 15044; Test and Evaluation of Demining Machines", available at the international Test and Evaluation Website (www.itep.ws).

Executive summary

During the first week of May 1-8, 2008, the MV 10 was tested at SWEDEC facilities Norra Kulla near Eksjö, Sweden. This test was planned and facilitated almost entirely by SWEDEC. The methodology specified in CEN Workshop Agreement "CEN Workshop Agreement 15044; Test and Evaluation of Demining Machines" was used. It started with a performance test and ended with a survivability test. These tests make up the content of this report.

The tracked, remotely controlled DOK ING MV 10, at approximately 17 tonnes, fits into what is normally regarded as a medium double tool combined system (6-20 tonnes).

The DOK ING MV 10 triggered or neutralized 425 out of 450 mines - 95 % of the targets used in these trials.

The results in each lane were varying between 42 up to 50 broken or triggered mines. The penetration of the witnessboards during the tests was showing a variation (chapter 4), some of them had skip zones. This variation, (skip zones) comes from a too high speed during the performance. The speed is also one reason to a low result of triggered mines.

The machine demonstrated ability to penetrate well beyond the depth required to reach the deepest targets. In all but the most difficult soil, a smooth uniform cut across the whole width of the machine was observed.

The survivability test went very well. The machine drove across an anti-tank mine the Swedish m/41-47 placed at surface. The machine suffered very little damage from the mine. A few chains and tools were lost and the tiller had some visual damage (some missing and some bent tools).

This machine have already been tested by the Defence Research and Development Canada-Suffied in 2006. In the report from that test it was noted that the machine had some problems to maintain the right depth penetration. The machine that was tested at SWEDEC did not have any ground levelling system, so the problem was still remaining.

According to DOK-ING, all future serially produced MV 10 machines will be fitted with such a system. The operator needed to have visual contact with the machine to control the depth penetration and the speed.

The remote control for the MV 10 was a new version.

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