

Open data:

For a better evaluation of the CFD results an overview of the measurements is presented and may be used for orientation purpose.

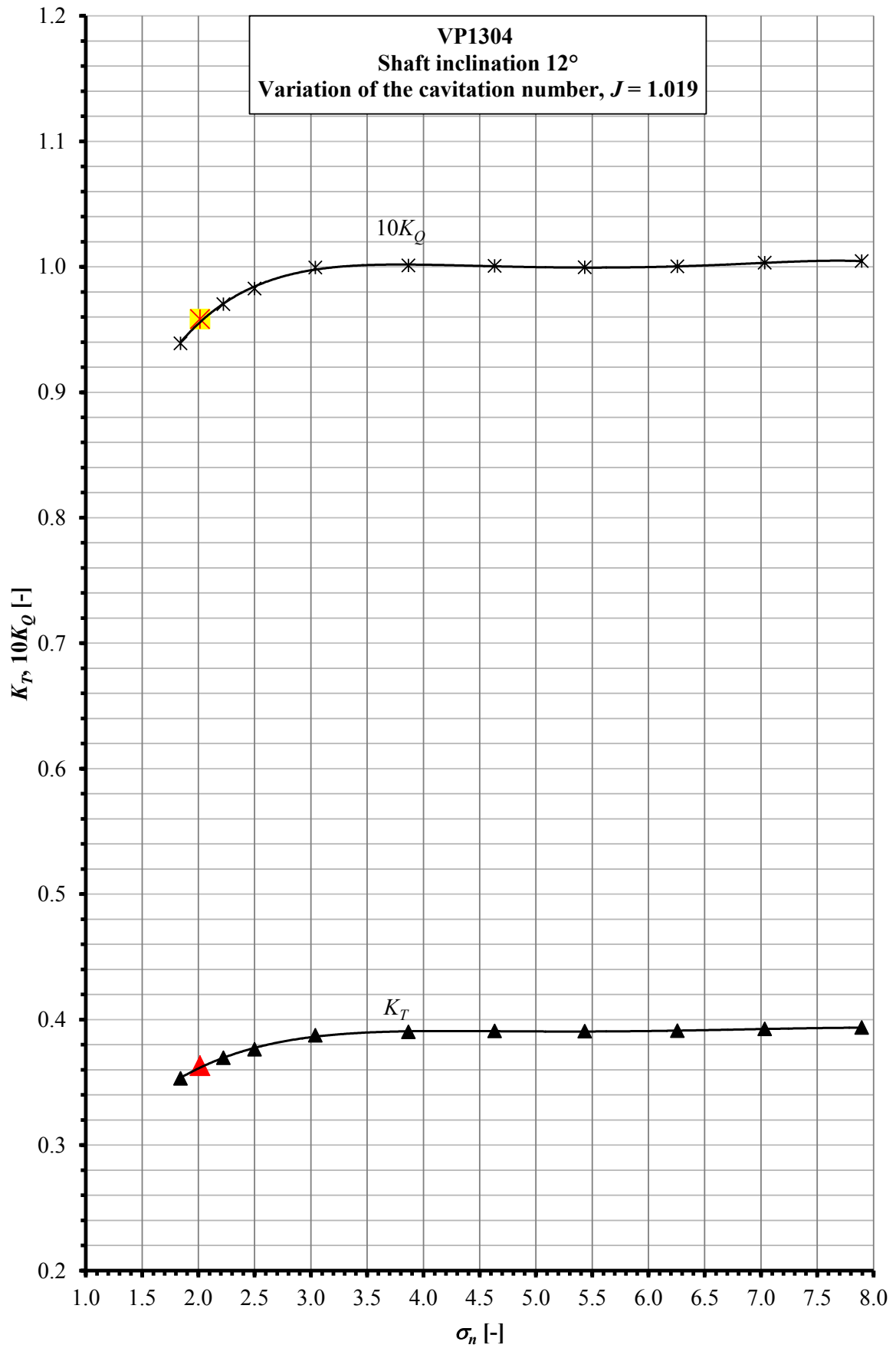
1. Case 1:

In the figure below the thrust and torque coefficient for $J = 1.019$ are provided. On the right hand side of the figure the values for the non-cavitating propeller can be derived.

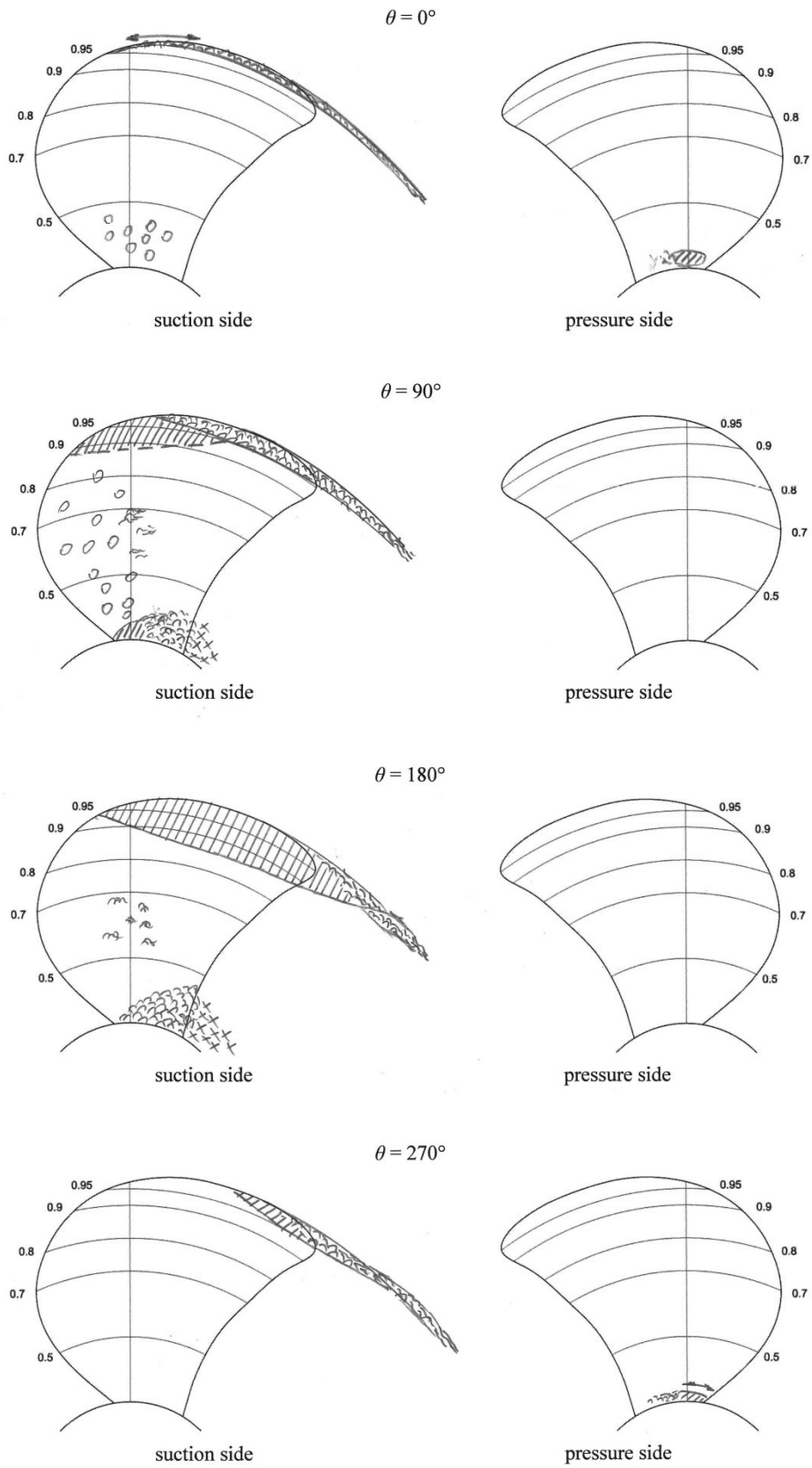
2. Case 2.1:

The thrust and torque coefficient for the operation point of test case 2.1 ($J = 1.019$, $n = 20$, $\sigma_n = 2.024$) is given. Also cavitation sketches and photos of selected angular positions of the propeller are provided. The angular positions are counted in direction of rotation (right-handed) and are given for blade 1, with 0° being equivalent to the 12 O'clock position. Please note, that the provided cavitation sketches are meant to give an impression but are not identical to the ones requested at the workshop.

Test case 1 and 2.1: Thrust deduction, $J = 1.019$



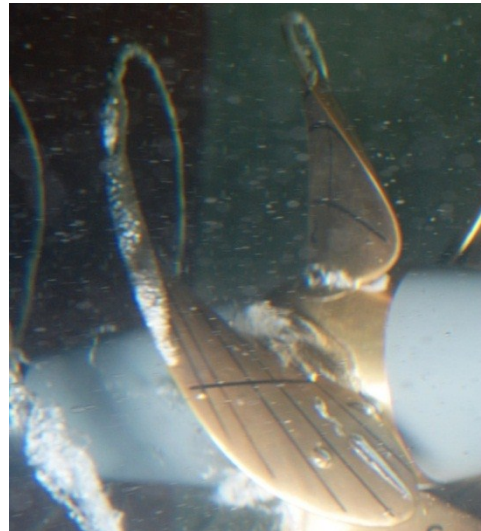
Test case 2.1: $J = 1.019$, $\sigma_n = 2.024$, $\theta = 0^\circ, 90^\circ, 180^\circ$ and 270°



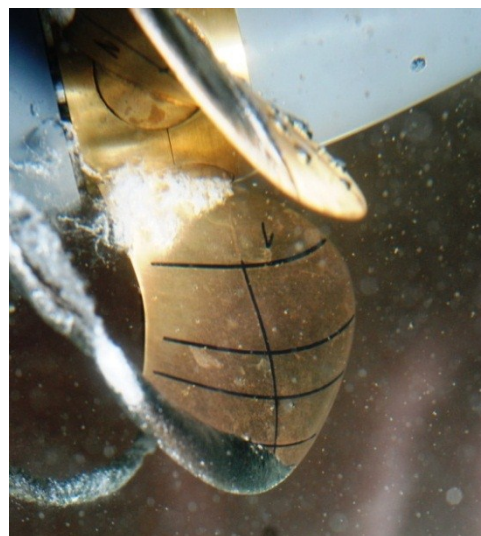
Test case 2.1: $J = 1.019$, $\sigma_n = 2.024$, $\theta = 180^\circ$



$\theta = 0^\circ$



$\theta = 90^\circ$



$\theta = 180^\circ$