

COMMENT ON THE MASTER STUDENT CTU-ITB

ADVISOR FROM ITB:

Dr. Nathanael Panagung Tandian
Assistant Professor in Faculty of Mechanical and Aerospace Engineering
Institut Teknologi Bandung, Indonesia

TITLE OF THE THESIS:

Mass Flow Leakage in Labyrinth Seal

THESIS WRITER:

Mr. Zbysek Ryvola, Master Student of Czech Technical University (CTU) and Institut Teknologi Bandung (ITB).

ADVISOR'S COMMENTS

Unfortunately I, as the thesis advisor from ITB, did not get much chance to know Mr. Zbysek Ryvola well during his study in Institut Teknologi Bandung (ITB), since the writer did not take my class due to the credit limitation in ITB. We only have had a couple of face to face discussions in ITB when we discussed the thesis topics, in the last month before the writer returned to Czech Republic. After that, the communication was done remotely through emails. Although there are such constrains, I get to know about the writer from my colleagues whose classes were attended by the writer, and from the writer's academic records in ITB. From the information, I get impresion that the writer is a very good student with excellent academic achievement as was reflected by his straight A transcript in ITB.

Regarding the thesis itself, I think the thesis is very relevant and important to the current energy generation issues that require high efficiency. Considering there are many aspects that have to be considered in order to investigate and understand the phenomena, therefore I appreciate Mr. Zbysek Ryvola for his effort, time, and energy in completing the thesis project up to the end and achieving several important and results.

In doing his thesis, Mr. Zbysek Ryvola has been revealing his maturity in handling the CFD simulation by using one of the most widely used CFD software, i.e. the Ansys Fluent. Personally I highly appreciate his excellent work in handling the tedious meshing steps in a very systematic and careful manners, which are very often not appropriately performed by most students who utilize CFD softwares. He also has evaluated and analyzed the obtained results very well so that he obtained important conclusions.

Although the writer has performed well in completing the thesis project, the obtained results have not completely revealed the studied phenomena, since they have not yet proved or compared to experimental/empirical results. The study covered in this thesis has not finished yet and is still opened for further study by comparing both the existing leakage models and the current CFD simulation against experimental results.

Last but not least, at the end of my comments, please allow me to express my high appreciation to the Czech Technical University in Prague, especially to Prof. Ing. Jiri Bila, DrSc. as Vice Dean for International and Public Relation CTU-in Prague, to Prof. Ivan Uhlir, MSc., DSc. as the contact person for the Double Degree Program CTU-ITB, to Ing. Yun Kuk Chol as the Thesis Advisor from CTU, and to all dear colleagues in the Faculty of Mechanical Engineering CTU for a good cooperation in carrying on the double degree program CTU-ITB and for inviting us to visit and join this thesis defense. I wish the good cooperation that has been being done well may sustain and give prosperous fruits for both CTU in Prague and ITB. Thank you.

Mark: very good (AB)

Bandung, February 14, 2017

Signature of the advisor from ITB:

A handwritten signature in black ink, appearing to be 'Yun Kuk Chol', written over a horizontal line.