SUPERVISOR'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**Analysis of Liner's Bore Distortion from Finite Elements Method Calculations.**
Author's name:	**Damien Gode.**
Type of thesis :	master
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of Automotive, Combustion Engine and Railway Engineering (12120)
Thesis supervisor:	Ing. Radek Tichánek, Ph.D.
Supervisor's department:	Vehicle Centre of Sustainable Mobility (12201)

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment — **ordinarily challenging**

Evaluation of thesis difficulty of assignment.

The assignment was reasonably difficult for the given type of study and the time for the diploma thesis.

Satisfaction of assignment — **fulfilled**

Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.

The diploma thesis exactly meets the assignment.

Activity and independence when creating final thesis — **A - excellent.**

Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.

The student proceeded actively, independently and fulfilled all terms in time.

Technical level — **B - very good.**

Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

The student managed the post-processing of data files from Abaqus using the Python programing language, developed basic user interface and nearly automated the evaluation process of bore distortion and liner's temperature.

Formal and language level, scope of thesis — **C - good.**

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

I missed any critical summery of the bibliographical research. The work should contain more figures, especially in the section about FE analysis, containing for example any scheme of cylinder assembly, mesh type and its quality, boundary conditions and constrains, applied loads, steps etc.

Selection of sources, citation correctness — **B - very good.**

Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.

The student used relevant sources but the citations are not linked to their source in bibliography. I missed the source of the Fourier transform equations.

Additional commentary and evaluation

Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.

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III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation.

The student progressed properly in solving of the diploma thesis, he completed the assignment and delivered a functional software for evaluation of the liner's bore distortion.

Additional questions:

Did you build an Abaqus model for analysis on your own or did you get it from DAF company?

What elements were used to generate the mesh? How did you check the quality of the mesh?

Were the nodes from a certain level at the same height?

I evaluate handed thesis with classification grade **B - very good.**

Date: **28.8.2018** Signature: