CZECH TECHNICAL UNIVERSITY IN PRAGUE
Faculty of Mechanical Engineering
12120 - Department of Automotive, Combustion Engine and Railway Engineering
Technická 4, 166 07 Prague 6, Czech Republic

SUPERVISOR'S REPORT ON THE MASTER'S THESIS

Master's thesis title ..... **Design of systems used in vehicles for military application**

Author ..... **Bc. Maude FOUQUET**

Supervisor ..... **Ing. Ondřej MILÁČEK**

Evaluation criteria and their classification

Fulfilment of the thesis requirements and goals..... B (very good)

Self-action and own initiative during the thesis elaboration.....D (satisfactory)

Application of knowledge gained
by self-study and from professional literature ..... B (very good)

Usage of groundwork and data from practice ..... B (very good)

Professional level and contribution of the thesis .....C (good)

Formal aspects of the thesis .....D (satisfactory)

Further comments to the thesis:

This thesis consists of two parts. The first one is the more important one and deals with the methodology of rigging of the military vehicle to a special plate to be able to be dropped out of the plane at the parachute. This part also includes a calculation of needed deformation elements (shock absorbers) and their placement between the vehicle and the plate which are used by impact on the ground.

Within this project there were provided real deformation tests, which is very interesting for the student. Used calculation procedure was correct.

Second part deals with another project, which is compliance review of an oxygen charging system. I have no additional comments to this part.

Very Important issue in this thesis was, that it was written at the last moment. Student had a problem with the topic, because she still didn't know it two weeks after she started her internship. I became first part of the thesis to review on 13th of July! Many figures were added in the really last version.

Next formal remark seems to be in the title of the thesis. In the assignment there is written "Design of systems used in vehicles for military application" but in the thesis is "Method to rig a vehicle", which is a title of part 3.

In figure 30 (and in many others) there is a number with 8 decimal places, which schould be rounded to some measurable value.

In figure 38 can be seen final shape of deformation elements. How will be they manufactured and has their shape any influence at the damping by hitting the ground?

I **recommend** the master's thesis for the defence.

Summary classification of the master's thesis ..... C (good)

Ing. Ondřej Miláček

....

supervisor's name supervisor's signature

In Prague..... - August 29, 2017 -