

I. Personal and study details

Student's name: **Roulin Dylan** Personal ID number: **498162**
Faculty / Institute: **Faculty of Mechanical Engineering**
Department / Institute: **Department of Automotive, Combustion Engine and Railway Engineering**
Study program: **Master of Automotive Engineering**
Specialisation: **Advanced Powertrains**

II. Master's thesis details

Master's thesis title in English:

Manufacturing and control of engine sealing rings and its improvements

Master's thesis title in Czech:

Výroba a kontrola motorového těsnění a možnosti zlepšení

Guidelines:

Make a literature overview of used engine sealing rings and their fabrication procedures. Accomplish a study of Valgate technology and prepare a portfolio designed to help the maintenance technicians. Describe the process of control check of produced sealings. Investigate the high wear of the shock absorber on the robotic arm. Propose new solutions. Document them appropriately, choose the best solution and prepare assembly of manufacturing drawings of the improved design. Make all necessary calculations.

Bibliography / sources:

Name and workplace of master's thesis supervisor:

doc. Dr. Ing. Gabriela Achtenová Department of Automotive, Combustion Engine and Railway Engineering FME

Name and workplace of second master's thesis supervisor or consultant:

Yannick Prodhon Freudenberg Sealing Technologies


Date of master's thesis assignment: **30.04.2022** Deadline for master's thesis submission: **12.08.2022**

Assignment valid until: _____

doc. Dr. Ing. Digitálně podepsal doc. Dr. Ing. Gabriela Achtenová Datum: 2022.07.20 15:16:58 +02'00'
Gabriela Achtenová

doc. Dr. Ing. Gabriela Achtenová
Supervisor's signature


doc. Ing. Oldřich Vitek, Ph.D.
Head of department's signature

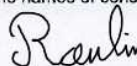

doc. Ing. Miroslav Španiel, CSc.
Dean's signature

III. Assignment receipt

The student acknowledges that the master's thesis is an individual work. The student must produce his thesis without the assistance of others, with the exception of provided consultations. Within the master's thesis, the author must state the names of consultants and include a list of references.

01/08/2022

Date of assignment receipt



Student's signature