

DIPLOMA THESIS EVALUATION

First name and surname : Shailender Ezhilarasan
Topic name : Influence of the Zinc Coated Sheets Surface Treatment on the Friction Coefficient
Supervisor : Ing.et Bc. Jiří Sobotka, Ph.D.

1. Diploma thesis evaluation

	Excellent	Very good	Good	Insufficient
Accomplishment of diploma thesis range specification		X		
Diploma thesis professional level		X		
Applicability of results and its contribution to practice		X		
Self-reliance and initiative during the thesis solution			X	
Diploma thesis graphic and content format		X		

Note: Evaluation is marked by **X** in the relevant position

2. Concrete recommendations to the diploma thesis

The submitted diploma thesis deals with the influence of zinc coated sheets surface treatment on the friction coefficient. In the theoretical part are described mainly aspects and parameters of tribological testing and basic materials that are used in the automotive industry. The own experimental part is subsequently focused on determination the friction coefficient of tested zinc coated sheets having different surface treatment (HDG, NIT). To measure this, a strip drawing test was used and quite a lot adjustments of different feed rates and contact pressures were applied. In light of results evaluation, there were firstly evaluated different types of forces and then also required values of friction coefficients. Nevertheless, regarding many used combinations of feed rate and contact pressure, there was needed to perform evaluation also by 3D color map surfaces. These graphs gave a very well-arranged overview of achieved results both as surface maps and as just single value.

In light of final evaluation of submitted diploma thesis, the essential aims have been achieved and results have been assessed in relation to set goals and the evaluations are properly argued. Significance of results is a little greater than expected, mainly due to the final evaluation by 3D color map surface graphs. I do not have any significant comments to the submitted diploma thesis. Student made a lot of experimental measurements but could also show more self-reliance during realization of this diploma thesis

3. Diploma thesis supervisor classification

Very good

In Liberec, dated 06. 06. 2018



 diploma thesis supervisor signature

