TFES Lab (ME EN 4650)

Spark Engine Lab: Grade Sheet*

Student Name: Lab Section:

	Possible	Score
I. Plots:	•	
1a. Torque [Nm] vs engine speed [RPM]	2	
1b. Brake power [kW] versus engine speed [RPM], comparing data and theory	6	
1c. Efficiencies [%] versus engine speed [RPM], comparing data and theory	6	
1d. Work rate terms [kW] versus engine speed [RPM]	6	
1e. Mean effective pressure [kPa] versus engine speed [RPM]	2	
Figure Captions: 2 pts per figure	10	
O Chart Assessed Occasions		
2. Short-Answer Questions:		
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2a. Percent contribution of terms in energy balance	2	
Percent contribution of terms in energy balance Compare calculated efficiency to Otto Cycle	2	

Total: 50

8

3. Matlab Code: Must include adequate comments for full credit

^{*} see the posted Handout for details regarding the specific requirements for each part