

AME 30358 – Score Sheet

M8 - Dynamometers

NDID#: _____

For more details on any of the items below, please refer to the lab handout.

Item and Description	Points Awarded	Possible Points
Technical writing and format – The tech memo should be formatted correctly as described below. All questions from the handout should be answered.		5
Torque-speed and torque-current curves (everything on one plot, use ‘yyaxis’ command) for 550 RPM motor		3
Torque-power and torque-efficiency curves (everything on one plot, use ‘yyaxis’ command) for the 550 RPM motor		3
Torque-speed and torque-current curves (everything on one plot, use ‘yyaxis’ command) for 200 RPM motor		3
Torque-power and torque-efficiency curves (everything on one plot, use ‘yyaxis’ command) for the 200 RPM motor		3
Part II - Plot of the torque-speed curve for <i>both</i> the 75% and 99% duty cycle tests (everything on one plot, include a legend) for the 550 RPM motor		3
TOTAL		20

Technical Writing

- Include a brief, single-paragraph summary of the procedure.
- Discuss the results using college-level English.
- Address the suggested talking points at the end of the lab handout.
- Do *not* write a first-person narrative. Rather, write it as a declaration of objective observations, scientific facts, and logical deductions.

Guidelines for Deliverables

- Use a 12 point “serifed” font such as Times New Roman.
- Document should be double-spaced.
- Document should have 1” margins in all directions.
- Page numbers are required centered at bottom of screen with the same font as the rest of the document.
- Equations must be numbered.
- All variables must be italicized.
- All variables in equations must be defined (i.e. “where c is the speed of sound”).
- **Tables** should always be centered with captions *above* labeled Table 1, etc..
- **Tables** should have black text on white background with 12 point Times New Roman.
- **Tables** should have the text centered both horizontally and vertically.
- Theoretical curves should always be smooth and continuous.
- Captions should be the same font as the rest of the document.
- Do *not* use the * symbol to denote multiplication.
- No titles on graphs.

References – Tech memos must include at least one reference. These can be data sheets from the lab website, articles from the internet, the textbook, etc. References should follow the ASME format.

(<https://www.asme.org/shop/proceedings/conference-publications/references>)