

Lab 3 Grading Sheet

ASE 162M - Spring 2016

Student Name: _____

Total Grade

150

Section	Comments			Grade
Free of Errors	-1 pt. ea. (max 10)			10
Good Formatting	-2 pt. ea. (max 10)			10
Abstract	Clearly and concisely written Fully summarizes work done and conclusions			3
Introduction	Contains 5 references with context: 5pt Contextualizes current work: 8pt Describes current work: 7pt			
	Egregiously extraneous information: -5pt			15
Theory	Schlieren theory: 4pt Shock-expansion theory: 4pt L & D eqn: 5pt CoP eqn: 3pt			
				15
Experimental Setup	Correct description of schlieren: 4pt Correct setup diagram: 4pt Description of test model: 2pt			
				10
Results and Discussion	3 labeled flow imgs: 3pt Similarity/differences: 2pt Viscous structures: 4pt Img distortion: 1pt	Plot of • C_D vs M (4 pt) • C_L vs AoA (4 pt) • C_D vs C_L (4 pt) Discussion of C_D/C_L plots: 8pt	Discussion of CoP data trends: 7pt Supersonic vs Subsonic: 3pt	
	Meas vs Exp pressure: 6pt. Discussion of differences: 4pt	Plots of CoP (5pt) Discuss theoretical trends: 5pt	Plot to compare to thin airfoil theory: 3pt Discussion: 2pt	65
Conclusion	Summarizes work and outlines findings			
	Not clearly written/extraneous information: -3pt			7
References	5 references: 1pt ea.			
	Inconsistent formatting: -0.5 pt ea.			5
Appendix	Derivation of lift and drag equations			10