

Fluids Lab 1: Fluid Properties

Team _____

Student Name

Part 1 Density

Hydrometer Reading

	Trial	Temp (*C)	Mass of Beaker	Beaker + Fluid	volume	Density, ρ	Specific Gravity
Water	1						
	2						
	3						
Salt Water	1						
	2						
	3						
Glycerin	1						
	2						
	3						

Part 2

	$d_{\text{steel ball}}$	σ , density of sphere	ΔV	$d_{\text{graduated cylinder}}$	L	t1	t2	v, viscosity	Density of Fluid, ρ	μ
Team 1	5/32"	7800kg / meter ³		60 mm						
	1/16"			60 mm						
Team 2	3/32"			60 mm						
	1/8"			60 mm						
Team 3	5/32"			60 mm						
	1/16"			60 mm						
Team 4	3/32"			60 mm						
	1/8"			60 mm						
Team 5	5/32"			60 mm						
	1/16"			60 mm						

Hint: $V=L*(\pi d^2/4)$

TA Signature