

Diesel Equipment Technology

Hands-on Brake System & Drive Train Test

Name_____

1. Air system identification
 - a. Treadle valve
 - b. Relay valve
 - c. Air governor
 - d. Air dryer
 - e. Tractor protection valve
 - f. Trailer hand valve

2. Foundation brake identification
 - a. "S" cam
 - b. Slack adjuster (manual)
 - c. Slack adjuster (automatic)
 - d. Brake shoe
 - e. What is proper wheel bearing adjustment
 - f. Return spring
 - g. What is the figure for allowable "S" cam to bushing fit (how much can you wiggle it up and down) in .001"
 - h. What is max drum ID

3. Drive Train
 - a. How many speeds in a transmission I point out
 - b. How is a gear "ratio" figured out
 - c. Show me an example of an "inter-axle differential"
 - d. On the Freightliner...which wheel drives
 - e. Spider gears
 - f. Clutch adjustment
 - g. Flywheel