

## B-17: Calibrate Oil Mist Lube System (Norgren)

### SAFETY FIRST

- Follow all Caterpillar facility safety standards when performing this task.
- Machine is moving during calibration. Keep hands clear of moving spindles.

### EQUIPMENT

- 3/32" Allen wrench
- timepiece capable of reading seconds

### RESOURCES

- machine manufacturer's specifications

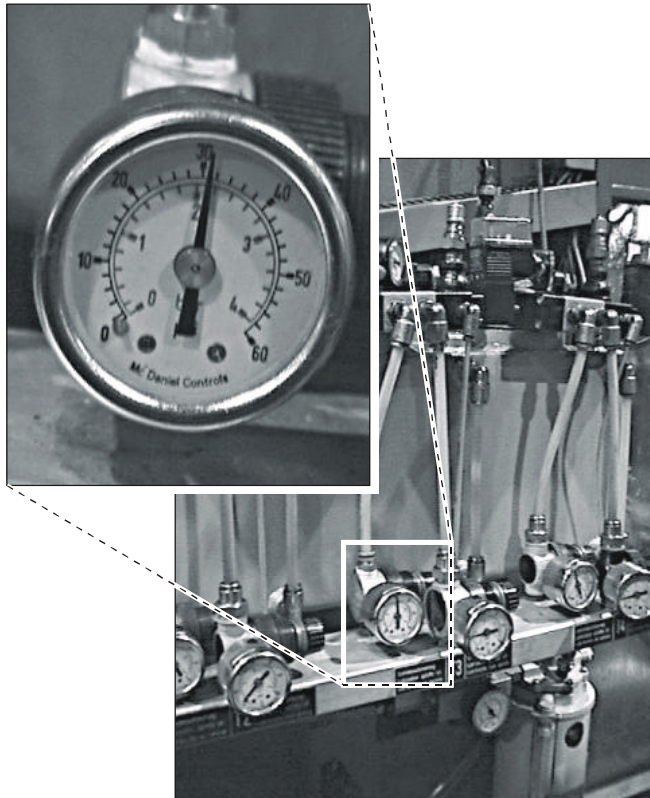


## Calibrate Oil Mist Lube System (Norgren)

1. Determine the required lubricator readings.
  - Read the manufacturer's specifications for the gage setting for the air to the valve, the air to the lubricator, the airflow to the lubricator, and the drip rate per minute.
2. Ask an Operator to start the spindle corresponding to the lubricator you are calibrating.

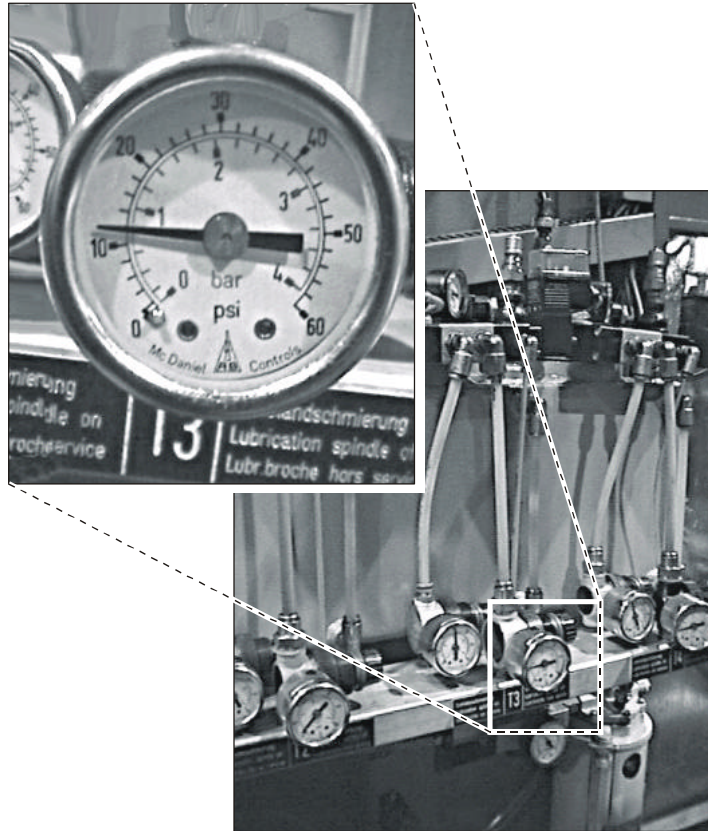
Note: Check and adjust the lubricator while the spindle is engaged.

3. Check and adjust the air-to-valve settings.
  - Adjust the regulator so the gage reads 30 pounds per square inch (PSI).



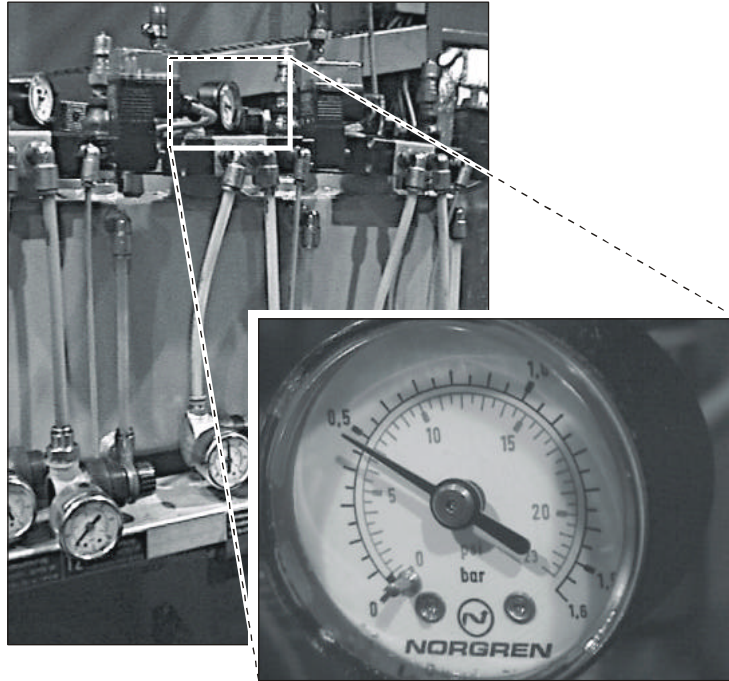
Air-To-Valve Gage

4. Check and adjust the air-to-lubricator settings.
  - Adjust the regulator until the gage reads 12 PSI.



Air-to-Lubricator Readings

5. Check and adjust the final air pressure settings.

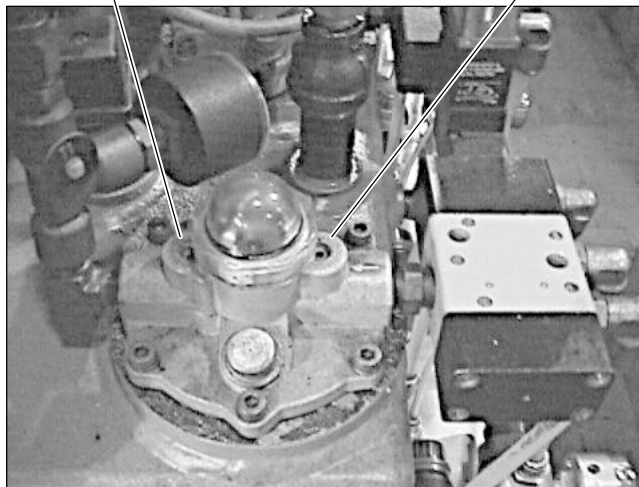


#### Final Air Pressure Readings

- Using the 3/32" Allen wrench, turn the bypass air adjustment until the gage reads 0.5 BARS (15 wc).

Bypass Air Adjustment

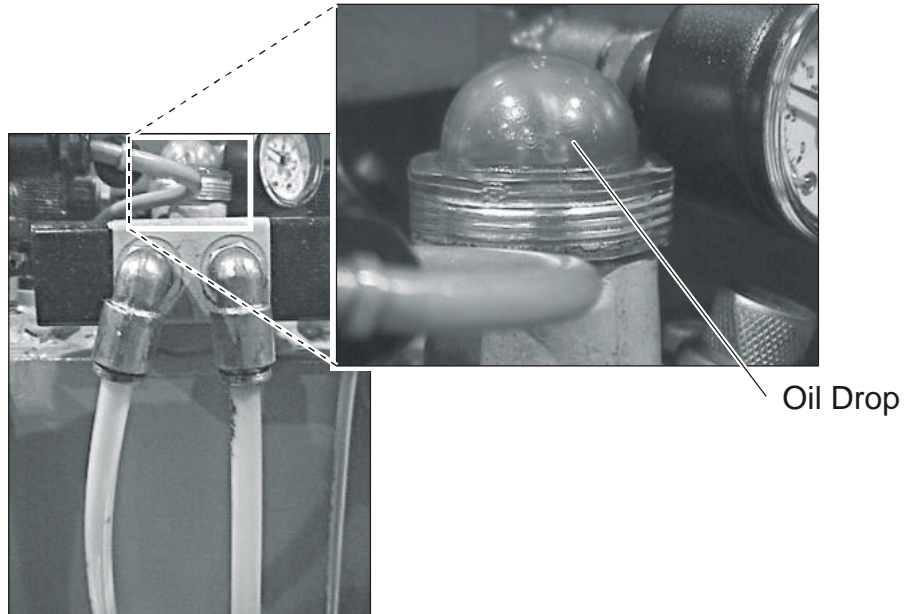
Oil Adjustment



#### Final Air Pressure Adjustment

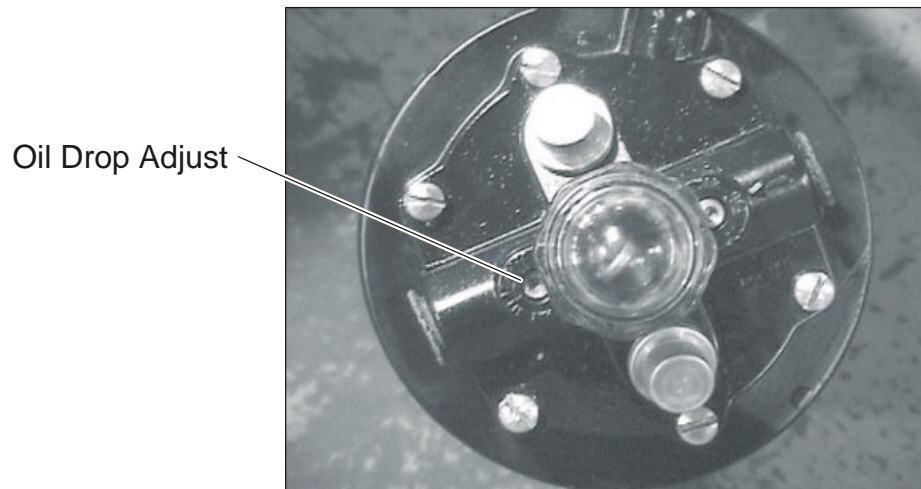


7. Check and adjust the lubrication oil drops.



#### Oil Drop Observation

- Use the 3/32" Allen wrench to increase or decrease the number of oil drops per minute.



#### Oil Drop Rate Adjustment

- Use a timepiece capable of reading seconds to help measure the number of drops per minute.
- While the spindle is engaged, count the number of drops for 15 seconds.

- Compare the number of drops per minute with the manufacturer's specifications (i.e., 7 drops per 15 seconds), and adjust the oil drops accordingly.

Note: Multiply the number of drops in 15 seconds by 4 to get the number of drops per minute.

