

Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Meets ASE Task:** (A1-B-9) P-3 Inspect valve guides for wear; check valve stem-to-guide clearance; determine needed action.

**Valve Guide Specifications and Measurement**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Page 86

**[ ]  1.** Specification for valve guide bore diameter: \_\_\_\_\_\_\_\_\_\_\_

**[ ]  2.** Specification for maximum valve guide wear: \_\_\_\_\_\_\_\_\_\_

**[ ]  3.** Use a small hole (split-ball) gauge and a 0-1" micrometer

 to measure the valve guide at three locations.



 Top of the guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Middle of the guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Bottom of the guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **OK [ ]  NOT OK [ ]**

**[ ]  4.** If the valve guides are worn beyond factory limits, select the replacement type.

 **[ ]** ream and install oversize (OS) valves

 **[ ]** thin wall bronze

 **[ ]** cast iron

 **[ ]** powdered metal (PM)

 **[ ]** other (describe): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[ ]  5.** What is the needed action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_