[ ]  1. Clean the engine block and visually inspect for damage.

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

Meets ASE Task: A1 – C-4 – P-2

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

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

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

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

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

**Engine Block Crack Detection and Warpage**

[ ]  2. Check the engine block for cracks. Which method(s) was used?

 \_\_\_\_\_\_\_ magnetic (Magnafluxing®)

 \_\_\_\_\_\_\_ dye penetrant (red dye and white powder)

 \_\_\_\_\_\_\_ fluorescent penetrant (Zyglo®)

 \_\_\_\_\_\_\_ pressure testing

[ ]  3. If cracks were detected, what was the solution?

 \_\_\_\_\_\_\_ replace the head/block

 \_\_\_\_\_\_\_ stop drilling

 \_\_\_\_\_\_\_ welding

 \_\_\_\_\_\_\_ crack plugging

 \_\_\_\_\_\_\_ other (describe) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ]  4. Use a precision straight edge and a feeler (thickness) gauge to check the block deck for warpage, distortion, bend, and twist by checking in five places.

[ ]  5. Maximum thickness of feeler gauge that could be placed between the straight edge and the head is \_\_\_\_\_\_\_\_\_\_\_\_\_inches. **OK \_\_\_\_\_\_\_ NOT OK \_\_\_\_\_\_\_**

 [ ]  6. What is the necessary action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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