INT108-3.3 Lab: Answer the following lab questions. Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Refer to part drawing number 52244 from the text book instructor package. Answer the following questions.

1.) What view of the drawing details the size measurements of the cam profile?

2.) Which cam type describes the cam featured on this part?

3.) Is there a displacement diagram featured on this print?

4.) As drawn, is the cam profile symmetrical above and below the horizontal center line?

5.) As drawn, is the cam profile symmetrical with respect to the vertical center line?

6.) Calculate the displacement of the follower surface if the base circle has a radius of .173″.

7.) How many sets of displacement measurements are given to describe the profile of the cam surface between the 9 o’clock position and the 3 o’clock position?

8.) How much geometric tolerance (profile of a surface tolerance) is applied to the cam profile?

9.) What surface hardness is specified for the cam surface?

10.) How “wide” is the cam surface, as specified in the main view?

11.) At what scale was the original drawing of this part created?

12.) At what scale is Detail B created?

          
13.) What name is given to the ridges formed on the left end of this part?

14.) How deep is the center drill in the right end of this part?

          
15.) What surface quality is specified for the .465″ diameter surface in the .142″ wide groove just to the left of datum feature A?

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