

Cleaning and Crack Detection

Meets NATEF Task: (A1-B-2) Inspect for cracks in cylinder head. (P-2)

Meets NATEF Task: (A1-C-2) Check for cracks in engine block. (P-2)

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 1. Double-check that all components, bolts, and plugs have been removed from the cylinder(s) and block.

_____ 2. Method used to clean the cylinder head(s) and/or block (check all that apply):

CAUTION: Do not use steel or metal tools or scrapers on aluminum parts. Use only wooden or plastic scrapers.

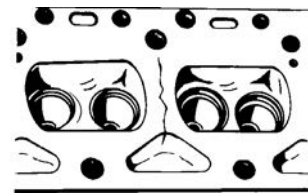
- _____ solvent-based cleaning
- _____ water-based chemical cleaning
- _____ spray washing
- _____ steam cleaning
- _____ thermal oven cleaning
- _____ cold tank chemical cleaning

- _____ hot tank chemical cleaning
- _____ vapor cleaning
- _____ ultrasonic cleaning
- _____ vibratory cleaning
- _____ blasting with shot

_____ 3. Visual inspection for faults. _____ **OK** _____ **NOT OK** (describe) _____

_____ 4. Check the cylinder head(s) and block for cracks. Which method(s) was used?

- _____ magnetic (Magnafluxing®)
- _____ dye penetrant (red dye and white powder)
- _____ fluorescent penetrant (Zyglo®)
- _____ pressure testing



_____ **OK** _____ **NOT OK** (describe) _____

_____ 5. If cracks were detected, what was the solution?

- _____ replace the head/block
- _____ stop drilling
- _____ welding
- _____ crack plugging
- _____ other (describe) _____