

# Piston and Bearing Wear Patterns

**Meets NATEF Task:** (A1-C-8) Identify piston and bearing wear patterns that indicate connecting rod alignment and main bearing bore problems; determine necessary action. (P-3)

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Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

\_\_\_\_\_ 1. Check service information to determine procedures and specifications for connecting rod and main bearing bore alignment.

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

\_\_\_\_\_ 2. Visually inspect the piston skirts for *diagonal wear*, which could indicate a bent connecting rod.

OK \_\_\_\_ NOT OK \_\_\_\_

\_\_\_\_\_ 3. Visually inspect the connecting rod bearings for abnormal wear patterns.

OK \_\_\_\_ NOT OK \_\_\_\_ Describe faults: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ 4. Visually inspect the main bearings for abnormal wear patterns.

OK \_\_\_\_ NOT OK \_\_\_\_ Describe faults: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ 5. Using the specified procedure and equipment, check the connecting rods for proper alignment.

OK \_\_\_\_ NOT OK \_\_\_\_ Describe faults: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ 6. Using the specified procedure and equipment, check the main bearing bore for proper alignment.

OK \_\_\_\_ NOT OK \_\_\_\_ Describe faults: \_\_\_\_\_

\_\_\_\_\_