▶ TASK Inspect crankshaft for straightness, journal damage, keyway damage, thrust flange and sealing surface condition, and visual surface cracks; check oil passage condition; measure end play and journal wear; check crankshaft position sensor reluctor ring (where applicable); determine needed action.

MAST 1C7

Time off_____

Time on_____

Total time_____

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1. **Research the procedure and specifications for inspecting the crankshaft and related parts in the appropriate service information.**

2. **Following the specified procedure, measure the crankshaft run-out (straightness).**
   a. **Specs: _____ in/mm**
   b. **Measurement: _____ in/mm**

3. **Following the specified procedure, visually inspect the following for damage, wear, or cracks. List your observations.**
   a. **Crankshaft main bearing journals: Worn _____ Damaged _____ Cracks _____ OK _____ (Check any that apply) Comments:**

   b. **Crankshaft rod bearing journals: Worn _____ Damaged _____ Cracks _____ OK _____ (Check any that apply) Comments:**

   c. **Crankshaft keyway: Worn _____ Damaged _____ Cracks _____ OK _____ (Check any that apply) Comments:**

   d. **Thrust flange: Worn _____ Damaged _____ Cracks _____ OK _____ (Check any that apply) Comments:**

   e. **Rear main bearing sealing surface: Worn _____ Damaged _____ Cracks _____ OK _____ (Check any that apply) Comments:**

f. Oil passages: Worn _____ Damaged _____ Cracks _____ OK _____ (Check any that apply) Comments:

g. Crankshaft position sensor reluctor ring: Worn _____ Damaged _____ Cracks _____ OK _____ (Check any that apply) Comments:

4. Following the specified procedure, measure the crankshaft main bearing journals. List your measurements in the table below.

Journal	Specs	#1	#2	#3	#4	#5	#6
Diameter (in/mm)							
Out-of-round (in/mm)							
Taper (in/mm)							

5. Following the specified procedure, measure the crankshaft connecting rod journals. List your measurements in the table below.

Journal	Specs	#1	#2	#3	#4	#5	#6	#7	#8
Diameter (in/mm)									
Out-of-round (in/mm)									
Taper (in/mm)									

6. Determine any necessary action(s):

7. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

Performance Rating

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0	1	2	3	4
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Supervisor/instructor signature _____ Date _____