

PROPELLER VISUAL INSPECTION

HUB DATA *(Record Blade Palm Data for CP Propellers)*

SERIAL NO.	STOCK NO.
DRAWING NO.	REV. _____ Hub _____ Dwg
MFG. BY	
MATERIAL	NO. OF BLADES
_____ PORT _____ STBD _____ CENTER _____ INBOARD _____ OUTBOARD _____ RH _____ LH	STRESS RELIEF/MODIFICATION DATA AND DATE <i>(if any)</i>
ACTIVITY WHERE LAST REPAIRED	DATE OF LAST REPAIR
INSPECTION	
SIGNATURE & TITLE OF QUALIFIED INSPECTOR	INSPECTING ACTIVITY
LOCATION OF INSPECTION (ACTIVITY)	DATE OF INSPECTION

INSTRUCTIONS

1. Utilize this form by placing a check mark in the appropriate column – YES, NO or NA (not applicable).
2. Answer all questions and record all defects. Use item 15 if more space is needed.
3. If an answer indicates the possibility of an unsatisfactory propeller, explain in the REMARKS column.
4. For Visual Preservation Inspection respond to items 1 and 10 through 15.
5. For Visual Technical Inspection refer to the applicable drawing and respond to items 2 through 15.
6. Show the approximate size and location of all defects and damage on the appropriate attached sketch. Identify damaged areas as old or new, if possible.

ITEM	YES	NO	NA	REMARKS
1. Preservation				
a. Is the propeller stored in open covered storage or better?				
b. Is the propeller preserved with strippable plastic coating?				
c. Is the plastic coating free of damage and deficiencies (e.g., tears, bare spots, peeling, porous, etc.)?				
d. Is the propeller preserved with corrosion-preventive compound instead of strippable plastic coating?				
e. Are the sheet metal blade edge protectors installed?				
f. Is there canvas or equivalent protection between blade edges and blade edge protectors?				
g. Are the blade edge protectors free of damage?				
h. Are the forward and aft faces of hub protected?				
i. Are the ends of the hub bore sealed?				
2. Are the following accessories installed or accompanying this propeller?				
a. Gland ring				
b. Eyebolts				
c. Eyebolt hole plugs				
d. Fill and vent hole plugs				
e. Gland and cap studs				
f. Gland and cap nuts				

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ITEM	YES	NO	NA	REMARKS
<p>3. Prairie System</p> <p>a. Are all the air-emitting holes open?</p> <hr/> <p>b. Are the air channel cover plate welds free of cracks and porosity?</p> <hr/> <p>c. On prairie propellers having an external air seal arrangement at the forward end, is the hub free of grooves and damage in way of the air seal housing?</p>				
<p>4. Blade Edges</p> <p>a. Does the latest revision of the propeller drawing specify a trailing-edge knuckle?</p> <p>- Do the trailing edges have a knuckle?</p> <p>- Is the break of the knuckle sharp on all blades?</p> <hr/> <p>b. Does the latest revision of the propeller drawing specify a trailing-edge fairing radius?</p> <p>- Do the trailing edges have a fairing radius?</p> <hr/> <p>c. Does the latest revision of the propeller drawing specify a knuckle on the blade tip?</p> <p>- Do the tips have a knuckle?</p> <p>- Is the break of the knuckle sharp on all blades?</p> <hr/> <p>d. Does the latest revision of the propeller drawing specify a tip fairing radius?</p> <p>- Do the blades have a tip fairing radius?</p>				

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ITEM	YES	NO	NA	REMARKS
e. Do the trailing edges have an edge radius of approximately 1/64"?				
f. Do the tips have an edge radius of approximately 1/64"?				
g. Are the leading edges, trailing edges, and tips free of damage and deficiencies (e.g., nicks, dents, bends, cable marks, flat spots, ridges, punch marks, gouges, etc.)?				
h. Are the leading and trailing edge outlines fair (not wavy)?				
i. Are the blade edges and tips free of cracks within a 3 inch wide peripheral band? (Identify location of cracks as being in welded or unwelded areas.)				
j. Are the blade edges and tips free of porosity within a 3 inch wide peripheral band? (Identify location of porosity as being in welded or unwelded areas.)				
5. Blade Surfaces				
a. Are the blade surfaces free of damage and deficiencies (e.g., dents, gouges, cable marks, etc.)?				
b. Are the blade surfaces free of cavitation erosion?				
c. Are the blade surfaces fair (not wavy)?				
d. Are the blade surfaces free of cracks? (Identify location of cracks as being in welded or unwelded areas.)				

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