



CPP Inspection & Maintenance Checklist — Printable (fillable)

Vessel: _____

Date: _____

Location: _____

Inspector: _____

Immediate / Safety-critical (24–72 h)

- HPU pressure normal: _____ bar / psi
- Max pressure test: _____ bar / psi
- External hydraulic leaks inspected: [] OK [] Yes—location: _____
- Relief valve setting verified: _____ bar / psi
- Accumulator charge pressure: _____ bar / psi
- Emergency feather function test: [] OK [] FAIL — action: _____
- Manual pump / dump valve operational: [] OK [] FAIL
- Pitch transducer reading vs manual: Command: _____ ° Actual: _____ ° Δ: _____ °
- Redundant sensors agreement within tolerance: [] Yes [] No — details: _____
- Overspeed / torque interlocks functional (simulated): [] OK [] FAIL
- CPP alarms & indicators test: [] OK [] FAIL — list alarms: _____

High priority (1–2 weeks)

- Actuator step-response test performed
 - Command step: _____ ° → Actual settle time: _____ s
 - Overshoot: _____ ° Steady-state error: _____ °
 - Result: [] Acceptable [] Borderline [] Fail — notes: _____
- Hub/backlash check: Play measured: _____ mm / ° — acceptable? [] Yes [] No
- Hydraulic oil sample taken: Particle count: _____ Water %: _____ Viscosity: _____
- Oil condition action: [] OK [] Filtered [] Changed — date: _____
- Servo/proportional valves bench/functional test: [] OK [] Replace [] Service
- Pump flow / pressure check: Flow: _____ L/min Pressure: _____ bar
- Position sensor calibration performed: Zero: [] OK [] Adjusted — details: _____



Medium priority (1–3 months)

- Hydraulic piping & fittings visual/internal: [] OK [] Corrosion/erosion found — location: _____
- Hub & bearing clearances measured: Clearance: _____ mm — acceptable? [] Yes [] No
- Seals / glands condition: [] OK [] Replace — locations: _____
- Accumulator reservoir breathers/filters: [] Clean [] Replace
- Valve spool & servo electronics inspected: [] OK [] Faults — list: _____

Lower priority / Preventative (quarterly–annual)

- Actuator/hub overhaul due: [] Yes [] No Next planned date: _____
- Propeller condition (cleaning/repairs): Blades OK: [] Yes [] No — issues: _____
- Combinatory curve revalidation required: [] Yes [] No Notes: _____
- Controller firmware/version checked: Current: _____ Update recommended: [] Yes [] No
- Critical spares onboard (valves/transducers/seals/pumps): [] Adequate [] Insufficient — list needed: _____

Condition monitoring & documentation (continuous)

- Trend logging enabled for: pitch cmd vs actual / hydraulic pressure / actuator current / engine rpm/torque
- Recent trend anomalies? [] Yes — describe: _____ Date detected: _____
- Alarms thresholds configured: [] OK [] Review needed
- Maintenance records updated: [] Yes [] No Last update: _____
- Crew trained on emergency/manual pitch: [] Yes [] No Training date: _____
- OEM service advisories reviewed: [] Yes [] No Notes: _____

Quick diagnostics (if slow/inaccurate response)

- Hydraulic pressure measured: _____ bar
- Filter condition: [] OK [] Blocked — ΔP : _____ bar
- Air entrainment present: [] Yes [] No



- Accumulator precharge OK: [] Yes [] No — pressure: _____ bar
- Position sensor wiring check: [] OK [] Faulty — location: _____
- Engine governor response checked: [] OK [] Mismatch — notes: _____

Actions taken / Repairs performed

1. Component: _____
2. Action: _____
3. Date: _____
4. Performed by: _____

5. Component: _____
6. Action: _____
7. Date: _____
8. Performed by: _____

9. Component: _____
10. Action: _____
11. Date: _____

Performed by: _____

Next inspection due: _____ Recommended follow-up actions:

Inspector signature: _____

Company/Dept: _____

(End of checklist)