

Ship Maintenance Checklist

This page outlines the preventive maintenance workflow for ship operations.

Daily Checks

- ☐ Check engine oil levels and quality
- ☐ Monitor cooling water temperature and pressure
- ☐ Inspect fuel filters for contamination
- ☐ Check air filters condition
- ☐ Monitor exhaust temperature and color

Weekly Checks

- ☐ Test emergency shutdown systems
- ☐ Check belt tensions
- ☐ Inspect fuel injectors
- ☐ Clean air intake filters
- ☐ Check battery electrolyte levels

Monthly Checks

- ☐ Change oil filters
- ☐ Analyze engine oil samples
- ☐ Inspect cylinder heads
- ☐ Check valve clearances
- ☐ Test cooling system integrity

Quarterly Maintenance

- ☐ Clean fuel injectors

- ☐ Inspect turbocharger
- ☐ Check crankshaft deflection
- ☐ Service air starting system
- ☐ Inspect engine mounts

Annual Maintenance

- ☐ Major engine overhaul inspection
- ☐ Replace main bearings if required
- ☐ Calibrate fuel injection pumps
- ☐ Complete cylinder inspection
- ☐ Update maintenance records and certification

Important Safety Notes

- Always follow manufacturer's specifications
- Maintain proper documentation of all checks
- Report any abnormalities immediately
- Ensure proper PPE is worn during maintenance

Maintenance Log





Component	Last Inspected Date	Status	Next Inspection Date	Comments
Engine Oil System	@May 15, 2025	Pass	@May 16, 2025	Oil pressure: 65 psi (acceptable: 50-70 psi)
Cooling System	@May 14, 2025	Pass	@May 21, 2025	Temperature: 82°C (threshold: 85°C)

Fuel Filters	@May 13, 2025	Pass	@May 20, 2025	Contamination level: 15% (threshold: 30%)
Air Filters	@May 12, 2025	Warning	@May 19, 2025	Efficiency at 75% (replacement at 70%)
Hull Integrity	@May 10, 2025	Pass	@June 10, 2025	Damage level: 12% (threshold: 30%)

Maintenance Thresholds

- **Engine Oil System:** Pressure must maintain 50-70 psi during operation
- **Cooling System:** Temperature should not exceed 85°C
- **Fuel Filters:** Replace when contamination reaches 30%
- **Air Filters:** Replace when efficiency drops below 70%
- **Hull Integrity:** Immediate dry dock required if damage exceeds 30%

Task Priority Levels

- ☐  **URGENT:** Requires immediate attention (within 24 hours)
- ☐  **HIGH:** Address within 48 hours
- ☐  **MEDIUM:** Complete within 1 week
- ☐  **ROUTINE:** Schedule during regular maintenance