

■■ MARINE CRITICAL PARTS INVENTORY LIST

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1. Propulsion System Components

Propeller (fixed/controllable pitch)
Tail shaft & intermediate shaft bearings
Stern tube seals (aft & forward)
Shaft coupling bolts
Rudder stock bearings and glands
Thrust bearing unit
Stern tube oil and seal kits

2. Main & Auxiliary Engine Parts

Cylinder heads and liners
Pistons, rings, and connecting rods
Fuel injectors and high-pressure pumps
Turbocharger assemblies and overhaul kits
Cooling water pumps and impellers
Lube oil filters, fuel filters, and separators
Engine control sensors and pressure switches
V-belts, hoses, and expansion joints
Governor actuator and linkages
Engine mountings and foundation bolts

3. Steering & Control Systems

Hydraulic steering pumps and motors
Hydraulic control valves and manifolds
Power pack filters and hoses
Steering rams and seal kits
Rudder angle indicator sensors
Control levers and steering solenoids

4. Electrical & Power Distribution

Main alternator (shaft generator or auxiliary)
AVR (Automatic Voltage Regulator)
Starter motors and relays
Circuit breakers and contactors
Switchboard control panels
Emergency generator spares

Distribution fuses, bulbs, and navigation light fittings

5. Deck Machinery & Mooring Systems

Windlass and mooring winch brake liners

Hydraulic motors and pump units

Anchor chain cable links and shackles

Anchor swivel and bow roller parts

Hydraulic power pack filters and seals

Capstan gears and couplings

6. Pumps & Valves

Ball, butterfly, and gate valve spares

Bilge and ballast pump spares (seals, bearings)

Sea chest strainers and gratings

Cargo and stripping pump components

Freshwater and seawater pump impellers

Valve actuator controls and limit switches

7. Cooling & HVAC Systems

Sea water and fresh water coolers

Air handling unit filters

Compressor belts and oil filters

Refrigerant and service valves

Cooling coils and fan motors

Expansion valves and thermostats

8. Safety & Firefighting Equipment

Fire pump spares (seals, impellers, bearings)

CO₂ system cylinders and release heads

Fire detection control panels and heat sensors

Foam concentrate and proportioner valves

Sprinkler heads and flexible hoses

Lifeboat engine spares (filters, starter, battery)

Emergency lights and batteries

9. Navigation & Communication

Gyro compass repeaters and spare gyros

Autopilot control units and rudder feedbacks

Radar scanner motors and antenna cables

GPS receiver spares and antennas

AIS transponder units

Bridge navigational watch alarm (BNWAS) components

VHF radio handsets and power supply units

10. Drydocking-Specific Spares

Hull anodes (zinc/aluminum sacrificial)

Sea valve overhaul kits and gaskets

Shaft seal repair kits

Rudder bearing and pintle inspection parts

Hull and tank coatings/paints

Overboard and sea chest gratings

Docking blocks, chocks, and support pads

Anchor chain calibration and replacement links

Propeller cone, nut, and key replacements

Bilge & ballast tank vent filters and flame arrestors

11. Consumables & Maintenance

Gaskets and O-ring kits

Hydraulic oil, lube oil, and greases

Paints, thinners, and anti-fouling coatings

Welding rods, grinding discs, cutting wheels

Filters (fuel, lube, air, hydraulic)

Fasteners, bolts, nuts, washers

Electrical cables, terminals, connectors

SUMMARY

Propulsion System Components – Propeller, shaft bearings, rudder stock, stern tube seals, thrust bearing, coupling bolts.

Main & Auxiliary Engine Parts – Pistons, cylinder liners, injectors, turbochargers, fuel pumps, engine mountings, belts, hoses.

Steering & Control Systems – Hydraulic steering pump, hydraulic valves, steering ram, power pack.

Electrical & Power Distribution – Alternator, starter motor, circuit breakers, switchboards, emergency generator.

Deck Machinery & Mooring Systems – Windlass, capstan, anchor chain, shackles, hydraulic motor.

Pumps & Valves – Ball valve, bilge pump, sea chest strainer, impeller, actuator.

Cooling & HVAC Systems – Heat exchanger, AHU, compressor, cooling coil, expansion valve.

Safety & Firefighting Equipment – Fire pump, sprinkler head, CO₂ cylinder, lifeboat engine, EEBD.

Navigation & Communication – Gyro compass, radar antenna, GPS, VHF radio, BNWAS.

Drydocking-Specific Spares – Hull anodes, shaft seal, rudder bearing, docking blocks, propeller nut/key.

Consumables & Maintenance – Gaskets, O-rings, grease, paint, welding rods, fasteners, filters.

