



# Operation and Maintenance of Marine Diesel Engines, Auxiliary Equipment, and Related Systems U.S. Army

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# Operation and Maintenance of Marine Diesel Engines, Auxiliary Equipment, and Related Systems U.S. Army

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## **Operation and Maintenance of Marine Diesel Engines, Auxiliary Equipment, and Related Systems U.S. Army Department of Defense**

This manual provides information on the maintenance of marine diesel engines, and principles of operation, auxiliary equipment, and related systems. General instructions and precautions requiring special attention are included for guidance. Contents of this manual: PREFACE, 1 PERSONNEL, DUTIES, AND RECORDS: 2 MARINE ENGINEERING SAFETY: 3 BASIC PRINCIPLES OF ENGINES: Section I. UNITS OF MEASUREMENT: Section II. ENGINE MECHANICS, Section III. PETROLEUM PRODUCTS, 4 RECIPROCATING INTERNAL-COMBUSTION ENGINES, 5 PRINCIPAL STATIONARY ENGINE PARTS, Section I. ENGINE FRAMES, Section II. CYLINDER ASSEMBLIES, Section III. ENGINE MOUNTINGS, 6 PRINCIPAL MOVING AND RELATED PARTS, Section I. TYPES OF VALVES AND VALVE ACTUATING MECHANISMS .. 6-1, Section II. PISTON AND ROD ASSEMBLIES, Section III. SHAFTS, Section IV. BEARINGS, 7 OPERATING MECHANISMS FOR ENGINE PARTS, 8 FUEL SYSTEMS AND ENGINE SPEED CONTROLS, Section I. REQUIREMENTS OF FUEL SYSTEMS, Section II. EXTERNAL FUEL SYSTEMS, Section III. FUEL INJECTION SYSTEMS, Section IV. ENGINE SPEED CONTROL DEVICES, 9 AIR INTAKE AND EXHAUST SYSTEMS, Section I. INTAKE SYSTEMS, Section II. EXHAUST SYSTEMS, 10 LUBRICATING OIL SYSTEMS, 11 COOLING SYSTEMS, 12 STARTING SYSTEMS, 13 TRANSMISSION OF ENGINE POWER, 14 DIESEL ENGINE OPERATING PROCEDURES, 15 TROUBLESHOOTING, 16 PROPELLERS, 17 PUMPS AND VALVES, Section I. PURPOSE AND CLASSIFICATION OF PUMPS, Section II. PURPOSE AND CLASSIFICATION OF VALVES, 18 PIPING, SEALS (GASKETS AND PACKING), AND INSULATION Section I. PIPING AND TUBING, Section II. SEALS, Section III. INSULATION, 19 INSTRUMENTS, 20 COMPRESSED AIR SYSTEMS, 21 HEATING AND VENTILATING SYSTEMS, Section I. BOILER SPECIFICATIONS, Section II. WAY-WOLFF BOILER, Section III. CRANE BOILER, Section IV. HEATING AND COOLING SYSTEMS, 22 AUXILIARY EQUIPMENT, 23 ENGINEER ADMINISTRATION, SUPERVISION, AND TRAINING: Glossary; References; Index.

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