

Marine Engineering and Shipbuilding Abstracts

Index to Volume 27, 1964

	Issue	Page		Issue	Page
AIR COMPRESSORS					
Aircraft Engine for U.S. Navy Ships ...	May	80	Sea Transport of Liquefied Natural Gas ...	July	119
Starting Air Compressor	May	82	Ship's Hatch Covers*	April	72
			Solid Bulk Handling Systems	April	70
AUXILIARY MACHINERY					
Constant-tension Oceanographic Winch ...	December	213	CAVITATION		
BEARINGS					
Bearings for I.C. Engines	January	15	Corrosion, Cavitation and Cathodic Protection of Copper Alloys and Steel, in Sea Water, at Ship Sterns	March	46
Determination of the Adhesion Between Anti-friction Coating and Surface of the Bearing	May	88	Pulsation Method for Generating Cavitation Damage	January	18
Factors Influencing Bearing Performance in High Output Diesel Engines	November	198	Supercavitating Flows	October	170
Roller Bearing Fatigue Testing	June	106	Transient Loading Effects of Cavitation Pitting	November	198
			Unified Theory of Cavitation Damage ...	January	17
BOILERS AND ANCILLARY EQUIPMENT					
Aircraft Engine for U.S. Navy Ships ...	May	80	CORROSION AND FOULING		
Automatic Boiler Control	July	110	Accelerated Tests on Zinc Rich Epoxy Coatings for Salt Water Service	April	69
Development and Evaluation of a Super-charged Steam Generating System ...	March	47	Aspects of the Corrosion of Metals	February	34
Diesel Exhaust Gas Boiler	February	30	Cathodic Protection of Cast Iron Propellers	March	45
Economizer Boiler	December	204	Cathodic Protection of Ships' Hulls and Lock Gates	March	43
Internal Pressure Cyclic Fatigue Test of Marine Boiler Drum	October	178	Corrosion and Materials Selection Problems on Hydrofoil Craft	March	49
Japanese Boilers	May	90	Corrosion, Cavitation and Cathodic Protection of Copper Alloys and Steel in Sea Water, at Ship Sterns	March	46
Refractory Coatings to Prevent Vanadium Corrosion in Boilers	March	50	Corrosion of Aluminium in Contact with Wood	February	33
Remote Control for Boilers	June	93	Corrosion of Light Alloys in Naval Aircraft Cylinder Liner Corrosion	December	214
Soot Blower Troubles in American Ships	January	9	Descaling by Electrolytic Action	November	185
Steam Generator*	March	51	Development of the Electrochemical Theory of Metallic Corrosion	July	125
Steam Generators Operating in Fog Flow Conditions	January	17	Effect of Surface Treatment of the Corrosion of Stainless Steel in Water and Steam at High Temperature	April	69
CARGO HANDLING AND STOWAGE					
Automatic Cargo Handling for Oil Tankers	November	186	Emulsifiable and Fire Resistant Rust Preventives	August	141
Cargo-handling Gear	November	194	Epoxy Resin Cover for Propeller Shaft ...	September	146
Cargo Vessel with Auxiliary Hold* ...	April	71	Evaluation of Newly Developed High-chromium Chromium Nickel Cast Alloys to Combat Fuel Ash Corrosion ...	August	129
Closed-circuit Television	September	155	Fundamental Considerations of Stress Corrosion	June	106
Combating Cargo Sweat	October	167	General and Stress Corrosion of High Nickel Alloys in Simulated Superheat Reactor Environment	January	2
Device for Opening and Closing of Hatchways*	October	179	Growth of Cast Irons in Atmospheres of Carbon Dioxide and Carbon Monoxide	April	69
Experimental L.N.G. Carrier	August	140	High Temperature Corrosion Data	April	68
Gas Hazards in Tankers	April	58	High Temperature Paint for Protection Against Metallic Corrosion	November	197
Gas Transport and Ship Classification ...	January	4			
Hatch Cover Assembly*	November	199			
Hydraulic Hinge	December	212			
L.P.G. Tanker	November	183			
New Tween-deck Hatch Cover System ...	April	54			
Novel Car Deck	September	149			
Palletized Cargo Ship	December	212			
Position Control of Hoses for Oil Tanker Loading	July	122			
Programmed Cargo Handling for Tankers	February	29			
Quick-acting Hatch Cleat	February	32			

* Patent Specification

	Issue	Page		Issue	Page
High Temperature Reactions in Metal Dusting Corrosion	February	34	FISHING		
Hull Protection for Large Tankers	May	82	Apparatus for Taking in the Catch on a Trawler and Transferring the Catch to Another Ship*	June	107
Icebreaker Corrosion Problems	October	170	East German Fishery Research Vessel	July	113
Kinetics of Deterioration of Insulating Coatings on Metals in Electrolytes	December	212	First Look at Some Wave and Wind Data from Trawlers	July	110
Lead Alloy Anodes for Cathodic Protection in Various Electrolytes	October	178	Fish Factory Base Vessel	June	98
Mechanism of Crevice Corrosion	December	212	Fish Irradiation on Trawler	April	62
Pickling Acid Attack on Shipbuilding Steels	October	177	Fishing Vessel*	December	215
Pitting Corrosion of Metals	February	27	Mechanical Engineering in the Deep Sea Fishing Industry	August	136
Pump Corrosion Problems	July	126	Physics Applied to Echo Sounding for Fish	October	177
Refractory Coatings to Prevent Vanadium Corrosion in Boilers	March	50	Soviet Scientific Fishing Vessel	January	18
Spray Bend Test for Evaluation of Stress Corrosion Cracking	April	68			
Theory of Stainless Steel Pitting	December	214	FUELS AND COMBUSTION		
DECK AND CARGO MACHINERY			Burning of Heavy Fuel in a Medium Speed, High B.M.E.P. Engine	February	33
Bipod Mast Tests	May	76	Combustion Dynamics of Fuel Oil Flames	January	17
Derrick Rigging System	September	154	Determination of Sodium and Vanadium in Fuel Oil using a Calorimetric Bomb	June	105
Self-tensioning Winch with Hydrostatic Transmission	August	138	Engine Run on Crude Oil	January	11
Shipboard Gantry Cranes	May	90	Experimental Investigation of the Processes of Combustion of Atomized Fuels in a Diesel Cylinder of Constant Volume	December	203
Ships' Hoist*	July	128	Investigations by the International Group for Flame Research on the Combustion of Fuel Oil	February	34
Topping Lift Stopper	July	126	Measurement of the Flue Gas Solids Burden from Oil Fired Installations using a Silica Wool Filter	June	106
DISTILLING AND WATER TREATMENT			Method of Controlling the Thermal Process of a Diesel by the Separate Introduction of the Fuel and an Auxiliary Combustion Chamber	February	33
Automatically-operated Evaporator	September	161	Noise Suppression in Oil Burners	December	203
Heat Transfer and Vapour Purification in Low Pressure Distillation Plants	March	46	Shape of the Oil Flame in Rotating-cup and in Pressure-atomization Burners	June	106
Multi-stage Flash Distiller Unit	July	125	Some Singularities in the Burning of Atomized Fuels	October	177
Shipboard Evaluation of Thin-film Distiller	July	125	Survey of the Chemistry of High Vanadium Oil Ash Deposition in Naval Boilers	August	131
Waste Heat Evaporator	January	4	Thermal Treatment of Light Residual Fuel Oils to Minimize Wax Separation Problems	February	21
DOCKS, HARBOURS AND BERTHING			Use of Magnesium Additives in Oil Fired Boilers	November	198
Constant Tension Mooring Winch	June	104	GAS TURBINES		
Design Criteria for Deep-sea Moorings	November	198	Gas Turbine for Unconventional Craft	March	42
Pneumatic Tyres for Pier and Dock Fenders	February	26	Gas Turbines for Unconventional Craft	February	28
Remote Control of Bilge Blocks	November	196	Jet Engines for Danish Frigates	January	8
Ship to Shore Buoy Telephone Unit	February	24	Maritime Administration Gas Turbine Programme	January	17
ECONOMICS			Procedure for Solution of Gas Turbine and Other Combustion Heat Balance Problems with Predetermined Airflow	August	142
Economics of Marine Automation	October	168	Propulsion Plant with Free-piston Gas Generator*	March	51
ELECTRICAL EQUIPMENT AND INSTALLATION			GEARINGS AND COUPLINGS		
Naval Auxiliary Machinery	March	44	Dynamic Behaviour of Spur Gears	April	60
Submersible Electric Motor	July	112	Eddy Current Coupling	June	101
ENGINES—STEAM TURBINE			Experimental Investigation of the Minimum Oil Film Thickness in Spur Gears	February	34
A.E.I. Standard Steam Turbines	April	58	High Power Variable-ratio Epicyclic Gear	September	157
Aircraft Engine for U.S. Navy Ships	May	80	Japanese Hydraulic Couplings	November	186
Auxiliary Geared Turbine	June	96	Life Expectancy of Helical Gears	February	23
Erosion of Propulsion Turbine Blades	October	170	Light-weight Hydraulic Coupling	March	43
Fatigue Strength of Turbine Shafts	January	18	Load Distribution on the Contact Line of Helical Gear Teeth	March	49
Japanese Standard Turbine Plant	November	196	Locked Gear Trains with Fewer Bearings	August	132
New Marine Steam Turbine Plant	August	135	Measuring Gear Accuracy by Means of Two Feelers	March	50
Steam Plant of s.s. <i>Sinclair Texas</i>	January	10			
Steam Turbine System with Nuclear Reactor*	October	179			
Supersonic Turbines	August	142			
Turbine-electric Propulsion for Ships	February	31			
Use of Flexible Rotors in Marine Steam Turbines	October	178			
FIRE PREVENTION					
Economics of Inert Gas Systems for Tankers	July	111			
Fume-neutralizing Chemical	April	56			
Gas Hazards in Tankers	April	58			
Inert Flue Gas System	May	76			
Inert Gas System for Crude Tankers	September	160			
Inert Gas System in <i>British Mariner</i>	June	102			
Liquid Sulphur Fire Risks	November	187			
Oil Mist Detection	December	208			

	Issue	Page		Issue	Page
Methods of Analysis of Falk Flexible Couplings	January	18	HYDRAULIC PLANT	May	86
Multi-engine Propulsion Gearing*	September	163	Hydraulic Motors	March	38
New Marine Transmission for Diesel Engines in the 800 h.p. Range	February	34	Hydraulically-driven Transverse Propeller Pressure Selector for Hydraulic Control	June	102
Pitting of Power Transmitting Spur Gears	March	50	ICE AND ICEBREAKERS		
Planetary-parallel Gears	July	115	Plans for Nuclear-powered German Ice-breaker	January	12
Tooth-type Flexible Couplings	July	117	Powerful Icebreaker for Baltic	September	159
Torsionally Resilient Coupling	September	164	INSPECTION AND TESTING		
Zero-stiffness Coupling	December	205	Compressor Cylinder Pressure Measurements	August	141
GROUND EFFECT MACHINES AND HYDROFOILS			Determination of Oxygen in Water	September	162
American Hydroskimmer Programme	September	150	Electronic Ear for Certifying Reliability	September	155
Captured Air Provides Lift	January	15	Fuel Cladding Corrosion Testing in Simulated Superheat Reactor Environment	August	141
Control for the Automatic Maintenance of the Depth of Submersion and for the Improvement of the Seagoing Behaviour of Hydrofoils Fitted to Watercraft*	December	216	Identification of Weld Defects by Ultrasonic Methods	June	105
First U.S. Craft with Fully Submerged Hydrofoils	July	118	Measurement of Mechanical Losses in the Internal Combustion Engine by the Retardation Method	August	141
Ground Effect Vehicle*	February	35	Measuring Gear Accuracy by means of Two Feelers	March	50
Hovercraft Ferry	August	142	Non-destructive Test Methods for Corrosion Detection	February	33
Hydraulic Requirements of Hydrofoils	August	134	Non-dispersive X-ray Spectroscopic Analysis	May	90
Maritime Administration Surface-effect Ship Materials for Hydrofoils	September	161	Re-inspection of Propeller Shafting at Annual Drydocking	September	161
Mechanical System for Reducing Pitching and Heaving of a Surface-piercing Type Hydrofoil Boat	July	113	Spectrophotometric Method for Studying the Oxidation of Lubricating Oils	August	141
Progress Report on Hydrofoil Ships	September	145	Statistical Acceptance Sampling Applied to Magnetic Particle Inspection of Ship Welds	October	177
Russian High Speed River Craft	August	142	Supplementing Radiography with Ultrasonic Inspection of Ship Welds	October	178
Stabilizer for Hydrofoil	November	195	Test Bed Running of Six-cylinder 850 mm. Bore Engine	September	147
Supramar Passenger Hydrofoil	February	27	Training of Operators for Ultrasonic Flaw Detection	May	90
Twin-hull Hydrofoil Craft	November	190	Ultrasonic Method for Evaluating Bonds in Large Metallic Bearings	November	190
U.S. Navy Hydroskimmer	April	61	Use of Ultrasonics for Detecting Corrosion in Boiler Tubes	August	141
HEAT EXCHANGERS AND HEAT TRANSFER			Wear Testing	June	105
Aerofoil-shaped Tube Supports	August	142	Weld Inspection by Ultrasonic Waves	October	166
Calculation of Performance of Surface Condensers by Digital Computer	June	105	INSTRUMENTS AND CONTROLS		
Calculation of the Tube Plates of Heat Exchangers with Straight Tubes in the Case of Limit Load	September	161	Apparatus for Determining Weight of Cargo on board a Ship*	January	20
Film Boiling of Steam-water Mixtures in Annular Flow at 800, 1,100 and 1,400 lb./sq. in.	October	177	Application of Optical Alignment and Direction Testers in Shipbuilding	May	75
Friction and Forced Convection Heat Transfer Characteristics in Tubes with Twisted Tape Swirl Generators	November	197	Automated Pneumatic Controls for Large-bore Engine	August	137
General Theory of Surface Condensers	June	105	Automated Tanker	August	142
Geometric Mean Beam Lengths for Radiant Heat Transfer Calculations	October	178	Automatic Boiler Control	July	110
Heat Exchanger and Steam Generator for Sodium-cooled Reactor System	September	153	Automatic Control of Marine Propulsion Unit	April	53
Heat Exchanger Test	July	126	Automatic Data Transmission from Ships at Sea	July	111
Heat Transfer and Stability Studies in Boiling Water Reactors	September	151	Automation and Controllable Pitch Propellers	August	138
Heat Transfer and Vapour Purification in Low Pressure Distillation Plants	March	46	Bridge Control for 20-Knot Vessels	October	176
Heat Transfer to Superheated Steam	April	69	Closed-circuit Television	September	155
Individual Row Heat Transfer in a Cross-flow in-line Tube Bank	December	214	Control for the Automatic Maintenance of the Depth of Submersion and for the Improvement of the Seagoing Behaviour of Hydrofoils Fitted to Watercraft*	December	216
Modern Aspects in Design and Construction of Condensing Plant	June	106	Control System for Ships' Bridges	December	214
Radiant and Convective Components of Diesel Engine Heat Transfer	May	89	Engine Analyser	April	67
Study of a Heat Exchanger with an Extended Surface	December	213	Engine Order Recorder	July	119
Transient Heat Transfer in a Vapour-heated Heat Exchanger with Arbitrary Time-variant Flow Perturbation	December	214	First Italian-built Ship with Remote Engine Controls	June	100
Unsteady Heat Transfer in Engines	July	126	Highly Automated Japanese Coastal Vessel	May	86
Waterside Fouling and Scaling of Heat Exchange Equipment	December	214	Instrument for Determining Sulphur Oxides in Flue Gases	August	130

	Issue	Page		Issue	Page
Marine Data Logger ...	October	172	Method of Controlling the Thermal Process of a Diesel by the Separate Introduction of the Fuel and an Auxiliary Combustion Chamber ...	February	33
Measurement of the Power Supplied to the Propeller ...	May	88	Mitsui-B. and W. Engine Tested at 2,450 b.h.p./Cylinder ...	June	106
New Method of Pressure Recording for Internal Combustion Engines ...	March	49	New Deutz High Speed Marine Engine ...	July	116
N.S. <i>Savannah</i> Instrumentation ...	October	170	New Method of Pressure Recording for Internal Combustion Engines ...	March	49
Oil Mist Detection ...	December	208	New Vee-type Four-stroke Engine ...	September	149
Pielstick Automatic Control ...	December	208	New Vee-type Marine Diesel Engine ...	May	84
Re-engined Ship with Bridge Control of Machinery ...	April	64	Nitrogen Oxides and Variables in Precombustion-chamber Type Diesel Engines	June	105
Remote Control for Boilers ...	June	93	Operating Results from Götaverken Large-bore Engines ...	November	187
Remote Control System for Main Machinery Stabilizer for Hydrofoil ...	May	79	Operating Temperatures in Injection Nozzles Oxides of Nitrogen in Diesel Engine Exhaust —Their Formation and Control ...	December	214
Telegraph Recorder for Ships ...	November	195	Performance of Centrifugal Blower under Pulsating Flow ...	March	49
Unmanned System for Recording Stresses and Accelerations on Ships at Sea ...	October	177	Performance of Exhaust Turbocharger under Pulsating Flow ...	October	178
Wide-range Automatic Control for Oil Fired Marine Boilers ...	February	26	Pielstick Automatic Control ...	December	208
	May	90	Piston Turbine Compound Engine ...	March	49
			Prevention of Idling Knock of a Diesel Engine ...	February	34
INTERNAL COMBUSTION ENGINES			Re-engined Ship with Bridge Control of Machinery ...	April	64
12-cylinder Large Bore Engine ...	December	204	Remote-controlled Provence-Doxford Engine Research and Development Concerning Highly Supercharged Japanese Diesel Engine ...	October	177
About Ignition Lag ...	May	89	Scott-Sulzer Engine for <i>Booker Vanguard</i> Swedish Diesel Engine ...	March	46
Analysis of the Otto Cycle taking into consideration the Effect of Varying Operating Parameters ...	January	17	Test Bed Running of Six-cylinder 850 mm. Bore Engine ...	December	210
Application of Adjustable Guide Vane Turbochargers to Four-cycle Engines ...	September	161	Torsional Vibration of the Driving System of a Roots Blower Attached to a Marine Diesel Engine ...	September	147
Aspects in the Designing of a Homogeneous Series of Large Marine Diesel Engines	December	214	Two Decades of Research and Development on the Doxford Engine ...	September	162
Automated Pneumatic Controls for Large-bore Engine ...	August	137	Upper-piston Cooling Gear for Doxford Engines ...	May	75
Axial Vibrations and Measurements of Stresses in Crankshafts ...	January	5	Using the Fuel/Air Ratio as a Basis for Rating of Turbocharged Four-cycle Diesel Engines ...	February	24
Burning of Heavy Fuel in a Medium Speed, High B.M.E.P. Engine ...	February	33	Vee-type Engine for Marine Propulsion ...	March	49
Compact Japanese Vee-form Engine ...	April	62	Vibration and Noise of Diesel Engines ...	January	6
Conversion from Steam to Diesel ...	April	70	World's Most Powerful Diesel Engine ...	February	34
Cylinder Liner Corrosion ...	November	185		February	21
Cylinder Lubrication of Diesel Engines Operating on Heavy Fuel ...	November	191	JOINTING AND SEALING		
Design of a Large Diesel Engine ...	February	32	Leakage Through Rotary Shaft Seals ...	October	177
Development of Marine Diesel Cylinder Lubricants ...	January	7	Rotary-shaft Seals ...	November	186
Diesel Installations for Large Tankers ...	January	12			
Diesel Machinery ...	August	130	LIFE SAVING EQUIPMENT		
Doxford Distributor Lubricator ...	January	2	Fireproof Lifeboat for Tankers ...	April	68
Engine Installation in Coaster ...	July	110			
Engine Performance ...	May	87	LUBRICATION		
Engine Run on Crude Oil ...	January	11	Anti-suff Performance of Metal Organodithiophosphate Additives ...	February	33
Exhaust Gas Muffler for Marine Diesel Engine ...	April	65	Automatic Lubricator Filler ...	May	84
Experimental Investigation of the Processes of Combustion of Atomized Fuels in a Diesel Cylinder of Constant Volume ...	December	203	Bore Finishes and their Effect on Engine Performance ...	April	70
Factors Influencing Bearing Performance in High Output Diesel Engines ...	November	198	Cleaning and Regeneration of Crankcase Lubricating Oil for Marine Diesel Engines ...	June	105
Fiat Marine Engine Developments ...	November	187	Cylinder Lubrication of Diesel Engines Operating on Heavy Fuel ...	November	191
Finnish-built Diesel Engine ...	January	2	Development of Marine Diesel Cylinder Lubricants ...	January	7
First 22,000 b.h.p. Sulzer-type 10 RD 90 Engine in Service ...	June	98	Doxford Distributor Lubricator ...	January	2
Highly Rated Sulzer Trunk Piston Two-stroke Engine ...	July	116			
Instruction in Internal Combustion Engines Investigation by M.A.N. into Dual-fuel Development for L.G. Tankers ...	November	185			
Investigations Concerning Wear of Inlet-valve Seats in Diesel Engines ...	May	74			
Japanese Diesel Engine ...	February	33			
Low Pressure Turbocharging of Two-stroke Diesel Engines ...	June	96			
M.A.N. Scavenge-air Change-over Valve ...	November	197			
	February	22			

	Issue	Page		Issue	Page
Effect of High Alkaline Lubricants on Cylinder Liner Wear	November	198	Improved Steel for Large Marine Propulsion Shafts	June	98
Experimental Investigation of the Minimum Oil Film Thickness in Spur Gears ...	February	34	Influence of the Defects in Welded Metal on Bending Fatigue Strength of Large Shafts	August	141
One-shot Lubricating System	March	42	Low Cycle Fatigue Behaviour of Axially Loaded Specimens of Mild Steel ...	January	18
Oxidation Stability of Steam Turbine Oils ...	November	198	Machinability of Nodular Cast Iron ...	March	50
Using Chemical and Physical Properties of Material to Aid in Lubrication ...	February	34	Marine Applications of Plastics	November	197
Wire Rope Lubrication	November	195	Materials for Hydrofoils	March	38
MACHINE TOOLS AND PROCESSES			Overheat Deformation Studies in Mild Steel Boiler Tubes	November	189
Air Balancing Hoist	January	13	Portable Urethane Foam Dispenser ...	January	11
High Speed Shape Cutting with Plasma ...	September	155	Post-weld Treatment of High Temperature Austenitic Steels	July	125
Machine Tool Development and Research ...	June	106	Properties of Low Manganese Stainless Steel Relationship between Hydrogen Pick-up and Susceptible Paths in Stress Corrosion Cracking of Type 304 Stainless Steel	May	89
Rudder-propeller	September	155	Relaxation of 2½ Cr-Mo Steel	March	50
MATERIALS, STRUCTURES AND STRESSES			Review of Research on Fatigue Strength of Steel Shafts built up by Welding and Metal Spraying Techniques	January	8
Application of Fracture Mechanics at and Beyond General Yielding	February	33	Sprayed Coatings of Exothermically Formed Nickel Aluminide	May	88
Axial Vibrations and Measurements of Stresses in Crankshafts	January	5	Statistical Distribution of Stress Corrosion Endurance	May	90
Bending Stress in the Bolts of a Bolted Assembly	April	65	Steels for Deep-submergence Hulls ...	November	195
Brittle Fracture Initiation in Mild Steel ...	April	56	Strain-controlled Fatigue in Pressure Vessel Materials	December	213
Brittle Fracture Propagation Studies ...	July	125	Stress Corrosion Cracking	March	50
Brittle Fracture Test of Armour Steel ...	November	198	Stress Corrosion Cracking of Austenitic Stainless Steel in Uranyl Solutions ...	November	195
Cleavage Fracture in Polycrystalline Iron ...	December	206	Stress Corrosion Cracking of Austenitic Steels in Sea Water	July	123
Considerations of the Thermal Stresses in Radiantly Heated Welded Tube Fins ...	January	17	Stress Corrosion Cracking of Type 347 Stainless Steel and Other Alloys in High Temperature Water	February	33
Correlations Between Sensitization and Stress Corrosion Cracking of 300 Series Stainless Steels	October	176	Stress Measurement Carried out in Service on a Propeller Blade of a 42,000-ton Tanker	October	178
Creep-rupture Properties of Tubes for High Temperature Steam Power Plant ...	April	55	Stresses in a Multi-layer Expansion Joint for High Pressure Piping	November	197
Critical Analysis of Crack Propagation Laws	July	125	Stress-strain Properties of Nodular Cast Irons in Tension and Compression ...	August	142
Cumulative Damage in Impulse Fatigue Tests	July	125	Summary of Some Studies of Brittle-fracture Propagation	May	90
Development of the Use of Aluminium in Ships	October	178	Tensile and Impact Properties of 18 per cent Nickel Maraging Steels	November	182
Developments in Refractory Insulation ...	July	125	Theory of Stainless Steel Pitting	December	214
Effect of Heat Treatment, Composition and Microstructure on Corrosion of 18Cr-8Ni-Ti Stainless Steels in Acids ...	November	197	Thermal Fatigue Under Pulsating Thermal Stress Cycling	February	33
Effect of Loading Frequency on Fatigue Strength of Steels at Elevated Temperature	March	50	Tri-axial Tensile Stress Fatigue Testing ...	July	125
Effects of Oxygen and Surface Treatment on the Corrosion of Stainless Steel in Superheated Steam	January	17	Unmanned System for Recording Stresses and Accelerations on Ships at Sea ...	February	26
Effects of Prolonged Stress Relieving Treatments on the Mechanical Properties of Reactor Pressure Vessel Steels ...	January	9	Use of Clad Steel in Dutch Chemical Tanker	May	81
Failure Tests on Cylindrical Steel Vessels Containing Axial Faults	July	109	Use of High Tensile Steel in Ships ...	November	194
Fatigue of Ship Structures	February	33	Use of Rubber Models as a Stress Aid ...	January	17
Fatigue Strength of Ferritic Steel Shafts Reclaimed by Welding and Metal Spraying	January	3			
Fatigue Strength of Members Containing Cracks	December	213	METALLURGY		
Fatigue Strength of Pressure Vessels ...	September	160	Cleavage Fracture in Polycrystalline Iron ...	December	206
Fatigue Strength of Turbine Shafts	January	18	Columbium as a Micro-alloying Element in Steels and its Effect on Welding Technology	May	89
Friction in Stacked Disc Springs	December	213	Effect of Heat Treatment, Composition and Microstructure on Corrosion of 18Cr-8Ni-Ti Stainless Steels in Acids ...	November	197
General and Stress Corrosion of High Nickel Alloys in Simulated Superheat Reactor Environment	January	8	Effects of Radiation on Alloys	October	172
Geometric Effects of Plate Thickness ...	September	156	High Temperature Properties of Cr-Ni-Nb and Cr-Ni-Mo Austenitic Steels ...	April	66
Glass Submarines under Study	December	214	Hot Hardness Characteristics of High Chromium Cast Irons	November	197
Hot Hardness Characteristics of High Chromium Cast Irons	November	197			
Implications of the Stress Aging Yield Phenomenon with Regard to Stress Corrosion Cracking	May	89			

	Issue	Page		Issue	Page
Shrouded Propeller for Tug	July	115	Idealized Limited-pressure, Compression Ignition Cycle	March	49
PROPULSION PLANT			Influence Exerted by the Flow of the Wake and the Streams Shed by the Screw Propeller on the Manœuvrability of a Ship	March	50
Closed Cycle Rankine Engine*	May	91	Integrated Power Plants for Automated Ships	September	158
Combined Power Plants for Marine Propulsion	January	14	Investigation by M.A.N. into Dual-fuel Development for L.G. Tankers	May	74
Computations for the Propulsion System of the Liner <i>Canberra</i>	April	69	Investigation of Midship Bending Moments	July	112
Hydraulic Jet Propulsion*	February	36	Investigation of the Possibility of Modelling the Combustion Chambers of Land and Marine Gas Turbine Installations	July	125
Hydraulic Jet Propulsion	March	49	Investigations Concerning Wear of Inlet-valve Seats in Diesel Engines	February	33
Marine Propulsion with Special Reference to the Transmission of Power	September	162	Lloyd's Register Research	November	191
Multiple Ship Propulsion System*	September	163	Maritime Loop Irradiation Programme for <i>Savannah</i> I Fuel Post-irradiation Examination of Fuel Assembly	October	166
Propulsion System*	July	128	Method of Controlling the Thermal Process of a Diesel by the Separate Introduction of the Fuel and an Auxiliary Combustion Chamber	February	33
Propulsion System for Ships*	November	200	Midship Bending Moments in Mariner Type Ship	November	186
Propulsion System for Twin-screw Ship* ...	April	71	Midship Bending Moments in Tanker	November	187
Reversing Systems for Stopping of Turbine-powered Ships	May	77	New Theory of Thermal Stability in Boiling Systems	October	177
Ship Propulsion by Wave Motion	May	89	Ocean Waves	December	205
Turbine-electric Propulsion for Ships ...	February	31	On the Forced Oscillations of Shallow-draught Ships	April	70
PUMPS			Oxides of Nitrogen in Diesel Engine Exhaust—Their Formation and Control	December	214
Pump Corrosion Problems	July	126	Pressure Losses in Smooth Pipe Vessels ...	November	192
REFRIGERATION			Principles of the Motion of an Atomized Jet of Liquid	April	68
Cargo Refrigerating Plant	November	184	Process Analyser for Vanadium in Gas Oils	April	70
Thermo-electric Cooling	November	193	Resistance and Propulsion Factors of Single-screw Ships at Fractional Draught ...	September	162
REPAIRS			Ship Structure Research	May	76
Water-borne Rudder Replacement	April	66	Some Additional Components of Ship Resistance and Their Practical Evaluation ...	November	197
RESEARCH AND INVESTIGATION			Some Trends in Solid Mechanics	July	125
Ambient Sound Measurements on Two Passenger Ships and an Oil Tanker ...	April	68	Stability Calculations for Heeled Conditions by Electronic Computer	September	161
Analysis of Centrifugal Stresses in Turbine Wheels	May	89	Statistical Theory for the Diagnosis and Identification of Underwater Objects ...	October	176
Application of Steam-water Spray to the Cooling of Light Water Reactors ...	October	173	Successful Operation of Steam Vacuum Jets	December	213
Boiling Theory and its Application to Obtain Very High Boiling Film Coefficients by Surface Pretreatment Alone	April	70	Technique for Microscopic Observation of Selective Corrosion	June	105
Calculation of Critical Speeds, Shaft Deflection, Bending Moments and Stresses in Turbine-generator Shafts	April	70	Tension of a Towing Rope	May	89
Correlations for Heat Transfer by Non-luminous Radiation Between Boiler Flue Gases and Grey Walls	September	162	Theoretical and Experimental Analysis of Stick-slip in Hydraulic Driving Mechanisms	March	49
Crankshaft Coupled Free Torsional-axial Vibrations of a Ship Propulsion System	March	50	Thermal Cycles and their Efficiency	July	126
Critical Speed Damper	January	18	Two Decades of Research and Development on the Doxford Engine	May	75
Design Principles for Gas Cooled Reactors	February	33	Velocity-defect Law of Turbulent Boundary Layer	March	48
Disposal of Radio-active Wastes from Nuclear-powered Ships	October	169	Vibration and Noise of Diesel Engines ...	February	34
Dual Pressure Steam Cycle Analysis	March	49	Wave Curvature Buoy	April	65
Effect of Bottom Vibration on the Hull Natural Frequencies	April	69	Wind-generated Ocean Waves	May	73
Effects of Cavitation and Flow Forces in the Electro-hydraulic Servo-mechanism ...	September	162	Work Study	August	141
Erosion in the Steam Turbine	November	188	SAFETY MEASURES		
Experimental Determination of Oscillatory Lift and Moment Distributions on Fully Submerged Flexible Hydrofoils	May	89	Nuclear Ships	October	167
Experimental Study of Energy Loss due to Branching and Confluence of Flow in Rectangular Ducts	March	49	SALVAGE		
Fatigue of Ship Structures	February	33	Adhesion of the Sea Bottom During the Refloating of Ships	September	155
First Look at Some Wave and Wind Data from Trawlers	July	110			
Form Effects on Viscous Resistance of Ships	April	69			
Head Losses due to Various Combinations of Two Pipe Bends	April	69			
Hydrodynamics of Two-cycle Engine	April	68			

	Issue	Page		Issue	Page
SEPARATING, REFINING, AND CLEANING					
Apparatus for Removing a Surface Layer from a Body of Liquid*	June	107	Ship Trial Analysis and Model Correlation Factors	May	90
Balanced Systems for More Efficient Sand-blasting Operations	March	50	Speed Loss at Sea as a Function of Longitudinal Weight Distribution	December	212
Cleaning and Regeneration of Crankcase Lubricating Oil for Marine Diesel Engines	June	105	Towing of Small Ship Models	June	106
Effluent Cleaning System for Maritime Reactor	September	162	Tug Propulsion Investigation	February	28
Metallic Gauze Filters for Marine Applications	October	165	SHIP MOTION AND STABILIZATION		
SHIP DESIGN AND DESIGN STUDIES					
20-Man Complement for Japanese Cargo Liner	January	12	106,000-ton Tanker with Flume Stabilization Acquisition and Analysis of Acceleration Data	October	167
Assessment of N.P.L. Resistance Data for Ocean-going Vessels	August	141	Computation of the Transverse Stability of a Ship in a Longitudinal Seaway	September	153
Computer in Swedish Shipbuilding Design Conduits Formed from Structural Parts of a Ship*	October	175	Criteria of Stability of Bucket Dredgers	March	43
Design and Operation of High Powered Cargo Liners	February	35	Errors in a Directional Gyroscope caused by the Rolling of a Ship	November	197
Design of Canadian Weather Ships	September	162	Flume Stabilization for 106,568-d.w.t. Tanker Flume Stabilization System for Two British Ships	December	213
Development and Operation of Drilling Vessels	August	133	Flume Stabilizers for Banana Ships	February	29
Hydrofin P20	January	18	Flume Type Tank Stabilizer*	July	119
Ideas on Bridge Layout	January	10	Mechanical System for Reducing Pitching and Heaving of a Surface-piercing Type Hydrofoil Boat	February	34
Japanese Cargo Liner	September	156	Ship Motion Effects on Boiling Water Reactor Dynamics	December	215
Japanese Pinjoint Ship	October	166	Stability of a Ship with a Flooded Compartment	July	113
Longitudinal Strength of River Vessels	March	48	Stabilizing Equipment*	September	154
Plans for Nuclear-powered German Ice-breaker	June	105	Steadying of Ships in a Seaway by Influencing their Stability	March	45
Revolutionary Passenger Ship Design	January	12		May	92
Seagoing Vessels for Transporting Motor Cars*	July	123		July	125
Soviet Winged Ships	May	91	SHIP RUDDERS AND STEERING		
Submarine Vessel*	March	38	Active Rudder for Research Vessel	March	42
Unusual Funnel Arrangement in Tankers	January	20	Bow Steering Installation*	November	199
Wind Protection Devices in Ships	May	75	Manœuvrability of Conventional Propeller and Rudder versus Steerable Ducted Propeller		
World's Deepest Diving Submarine	September	162	New Rudder Arrangement for Inland Waterways Ships	November	183
	October	167	Rotary Drive for Rudder*	January	17
			Rudderless Vessels	July	127
			Rudder-propeller	January	18
			Steering Device*	September	155
				August	143
			SHIP MODEL TESTS		
Analysis of a Sample of Ship Model Correlation Data for Tankers	August	138	SHIP'S EQUIPMENT		
Circle Tests with a Radio-controlled Model of a Cargo Liner	June	106	Antenna for Mastless Ships	October	167
Facilities and Experiment Techniques at the Netherlands Ship Model Basin	July	126	SHIPS—NEW CONSTRUCTION		
Glass Submarines under Study	December	214	300-ton Capacity Lift Vessel	June	95
High Speed Basin at David Taylor Model Basin	November	188	8,500 h.p. Salvage Tug	January	8
Japanese Experimental Tank	November	192	Anglo-German-built Passenger-car Ferry	May	85
Midships Bending Moments in Tanker	November	187	Automated Tanker	August	142
Model Experiments and Ship Correlation Regarding Manœuvrability	November	198	Belgian-built Multi-purpose Cargo Ship for Greek Owners	September	157
Model Experiments in Regular Waves with Particular Reference to Wave Bending Moments Amidships	January	18	British-built Ship for France	May	83
Model-ship Correlation Method in the Mitsubishi Experimental Tank	April	70	British-built Tug for Sweden	April	70
Recent Developments in Techniques for Experiments with Ship Models	January	18	British Equipment for Largest Spanish-built Ship	September	151
Resistance and Propulsion Experiments on a Model of the Standard Type Gustav Koenigs Self-propelled Barge	November	197	British Universal Bulk Ship	October	173
Review of Research Activities at the Netherlands Ship Model Basin	September	161	Bulk Carrier with Grab Cranes	January	10
Ship and Model Measurements of Unsteady Propeller Forces	August	132	Canadian Car and Passenger Ferry	April	54
Ship Model Correlation Using the B.T.T.P. 1962 Data for Single-screw Tankers	November	198	Car Ferry to Israel	December	202
			Cunard Cargo Liner	May	77
			Cutter Dredger	July	111
			Danish-built Cargo Liner for Poland	September	148
			Diesel Electric Dredger	May	78
			Doxford High Speed Cargo Ship	March	41
			Dutch Cargo Motor Liner	August	136
			Dutch Cargo Motor Vessel	February	23

	Issue	Page		Issue	Page
Dutch Coaster with Bridge Control ...	November	192	Stern Trawler/Tug for Irish Owners ...	October	174
Dutch Vehicular and Passenger Ferry ...	May	80	Sweden's Largest Ship	October	169
Europe's Biggest Car Ferry	June	100	Tourist Submarine for Lake Geneva ...	May	78
Experimental L.N.G. Carrier	August	140	Turbo-electric Oceanographic Ship ...	February	31
Fast Refrigerated Norwegian Cargo Ship ...	July	114	Tween-deck Ship for Norwegian Owners ...	January	14
Finland Delivers Second Cable Ship to Russia	January	16	Twin-screw Coaster	October	173
First 22,000 b.h.p. Sulzer-type 10 RD 90 Engine in Service	June	98	Twin-screw Passenger and Car Ferry ...	January	5
First Italian-built Ship with Remote Engine Controls	June	100	Use of Clad Steel in Dutch Chemical Tanker	May	81
First of Four Dutch 20-knot Cargo Liners	June	103	U.S. Twin-screw Ferry	January	3
Fish Factory Base Vessel	June	98	West Germany's Biggest Tankship	March	44
Four Fast Italian Liners	May	88	Wolin Type Vessels of Polish Ocean Navi- gation Co.	July	126
French-built BP Tanker	April	56	World's Largest Car Carrier	June	97
French Steam Turbine Tanker with Centra- lized Machinery Controls	August	136	Yugoslav-built Vessel for London Greek Owners	July	110
German Atomic-powered Merchant Ship ...	June	99	SHIP TRIALS		
German Bulk Carrier	June	103	Bending Moment Data from Ships at Sea	November	190
Highly Automated Japanese Coastal Vessel <i>Hvidbjørnen</i> Class Inspection Vessels for Royal Danish Navy	August	138	SMALL CRAFT		
Italian Tanker with Diesel-driven Cargo Pumps	December	207	Diving Vessel of Unconventional Design ...	September	146
Japanese Dry Cargo Vessel with Automated Controls	July	124	First U.S. Craft with Fully Submerged Hydrofoils	July	118
Japanese Standard Tanker	December	209	STEAM PLANT		
Japanese Tanker	April	58	Increased Steam for 19,000-ton Tanker ...	November	185
Japanese Tankers with High Freeboard ...	November	184	Steam Generating Plant*	June	108
Large Fruit Carrier from Greenock Dock- yard Co. Ltd.	July	113	Steam Generating Plant*	August	144
Large Italian Tanker	June	103	WATERWAYS		
Large Norwegian Bulk Carrier	March	44	Spilled Oils Gelled by Chemical	March	41
Large Oil Tanker	June	95	WELDING AND CUTTING		
Large Russian Tanker	January	13	Advances in Semi-automatic Gas Metal-arc Welding of Steel	April	69
Large Seagoing Dredge	January	9	Assessing the Accuracy of Calculation of Welding Deformations	November	197
Large Swedish Bulk Carrier	September	153	Biaxial Stress-strain Properties of Welds in High Strength Alloys	August	141
Large Swedish L.P.G. Carrier	May	85	Columbium as a Micro-alloying Element in Steels and its Effect on Welding Technology	May	89
Largest Dutch-built Vessel	January	8	Consumable Electrode Gas Shielded Welding of Austenitic Steels for Power Plant Fabrication	July	126
Largest European-built Merchant Vessel ...	June	101	Dual-flow Plasma Torch	November	191
Lighthouse Tender	January	16	Effects of Nitrogen in CO ₂ Welding ...	July	124
L.P.G. Tanker	November	183	Electro-slag Welding of Circumferential and Longitudinal Joints in Medium High Tensile Steels	August	142
New Baltic Car Ferry	March	39	Fatigue and Welding	September	161
New B. and W. Engines in Danish Ice- breaker	July	121	Fatigue Strength of Ferritic Steel Shafts Reclaimed by Welding and Metal Spraying	January	3
New British Cargo Vessel	April	65	Fibre Metal for Joining	September	161
New Cargo Liner Requiring no Watch- keeping Engineers	December	202	Flame-plating Process	May	82
New Cross-Channel Train Ferry	August	133	High Speed Shape Cutting with Plasma ...	September	155
New Cross-Channel Vessel	September	151	Identification of Weld Defects by Ultrasonic Methods	June	105
New French Ferry	October	175	Improving Weld Resistance to Fatigue ...	August	139
New Italian Liner	April	55	Influence of the Defects in Welded Metal on Bending Fatigue Strength of Large Shafts	August	141
Norwegian Medium Crude Carrier	December	209	Low Temperature Diffusion Bonding of Aluminium Alloys	November	182
Oceanographic Research Ship	December	204	Mechanized Welding on Ship Conversion ...	March	46
Passenger Ships and Ferry Boats with Fiat Engines	June	105	Micro-fissuring of Multi-run Mild Steel Weld Metal	April	65
Polish Cargo Ship	March	39	Plasma Cutting and Gouging	December	213
Polish Motor Ships	May	81	Power Supplies for Welding	April	63
Portuguese-built Tugs	December	211	Residual Stresses in a Weld with One Free Surface	August	131
Powerful Deep-sea Salvage Tug	February	23			
Powerful Icebreaker for Baltic	September	159			
Propulsion Control on Ferry Boats	December	213			
Refrigerated Cargo Liners	April	57			
Russian Fish Factories to be built in France	April	62			
Self-unloading Bulk Carrier	December	206			
Service Performance of French Passenger Liner	August	130			
Service Performance of Universal Bulk Carrier	October	175			
Single-engined Ferry with Two Propellers ...	December	203			
Steam Plant of s.s. <i>Sinclair Texas</i>	January	10			

	Issue	Page		Issue	Page
Residual Stresses in Welded Plates—A Theoretical Study	October	177	Testing of Welded Seams in Boiler Construction	August	142
Review of Research on Fatigue Strength of Steel Shafts Built up by Welding and Metal Spraying Techniques	January	2	Unusual Application of Gas Shielded Arc Welding of Steel	June	106
Solid State Bonding	December	207	Vertical Automatic Welder	May	83
Sprayed Coatings of Exothermically Formed Nickel Aluminide	May	88	Welded Connexions Used in Warship Structures	February	34
			Welding of Castings	August	142