

NAME

NORMANNA

MOTOR SHIPS

NAME

NORMANNA

7E

PORT MAIN ENGINE	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
Cylinders, Pistons, Rods, Valves and Gears ^{1,2}												
Connecting Rods, Top ends and Guides ³												
Crankpins and Bearings ⁴												
Journals and Bearings ⁵												
Compressors on Main Engine ^{6,9}								Compr. Coolers ¹⁰				
Scavenge Pumps or Blowers ^{11,16}												
Supercharger ¹⁷												
Clutch or Hydraulic Coupling ²¹							Gearing ²²					
Magnetic Coupling ⁷							Air Gap ⁸					
Thrust ²³							Intermediate Shafting ²⁴					
Holding Down Bolts & Chocks ²⁵							Crankcase Relief Devices ³¹			Engine Tested		
Main Engine Driven Pumps ³⁰	Bilge		S.W. Cooling		F.W. Cooling		Lub. Oil		Fuel			

STARBOARD MAIN ENGINE	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12
Cylinders, Pistons, Rods, Valves and Gears ^{1,2}												
Connecting Rods, Top ends and Guides ³												
Crankpins and Bearings ⁴												
Journals and Bearings ⁵												
Compressors on Main Engine ^{6,9}								Compr. Coolers ¹⁰				
Scavenge Pumps or Blowers ^{11,16}												
Supercharger ¹⁷												
Clutch or Hydraulic Coupling ²¹							Gearing ²²					
Magnetic Coupling ⁷							Air Gap ⁸					
Thrust ²³							Intermediate Shafting ²⁴					
Holding Down Bolts & Chocks ²⁵							Crankcase Relief Devices ³¹			Engine Tested		
Main Engine Driven Pumps ³⁰	Bilge		S.W. Cooling		F.W. Cooling		Lub. Oil		Fuel			

Independent Pumps ³²	Bilge	Ballast	Fuel Transfer	Fuel Service
	Cyl. Cooling	Piston Cooling	Lub. Oil	Fuel Valve Cooling
	Feed	Cond. Circulating	F.W. Coolers ³⁵	Lub. Oil Coolers ³⁶
	Other Pumps having Bilge Connections 4-8			

Bilge, Ballast and O.F. Lines ³³		
Other Piping Arrgts. and Fittings ³⁴		Propellers and Sea Connections
Condenser ³⁸	Evaporator ³⁷ Safety Valves ³⁹	Steam Pipes Over 3in. Bore <i>Yes</i>
Oil Fuel Tanks ⁴¹		Oil Burning Arrgts.
Steering Machy. ⁴²	Windlass ⁴³	Fire Ext. Arrgts. ⁴⁴
Indep. Air Compressors ³⁵ <i>1 Steam 1 Electr</i>		Comp. Coolers
Main Air Receivers ⁴⁵ <i>1-2</i>	Auxiliary Air Receivers ⁴⁶ <i>(2)</i>	

AUXILIARY ENGINES				
1 - Diesel 50kw				
1 - Steam Sync 50kw				
2 - Oil C 90kw each				

ELECTRIC PROPULSION	PORT	STARBOARD
Generators ⁴⁷		
Exciters ⁴⁸		
Air Coolers ⁴⁹		
Motors ⁵⁰		
Air Coolers ⁵¹		
Control Gear ⁵²		
Insulation Resistance ⁵³		
Insulating Oil Test ⁵⁴		
Overspeed Governors ⁵⁵		

AUXILIARY ELECTRICAL EQUIPMENT	
Generators ⁵⁶	
Motors ⁵⁷	
Switchboards ⁵⁸	
Circuit Breakers ⁵⁹	
Cables ⁶⁰	
Insulation Resistance ⁶¹	
Steering Gear ⁶²	Navigation Light Indicators ⁶³
<i>100kw</i>	