

TWIN SCREW

Name **BERLIN****7E**

## MOTOR SHIP SURVEYS

ELECTRIC PROPULSION	PORT	STARBOARD
GENERATORS		
EXCITERS		
AIR COOLERS		
MOTORS		
AIR COOLERS		
CONTROL GEAR		
INSULATION RESISTANCE		
INSULATING OIL TEST		
OVERSPEED GOVERNORS		

MAGNETIC COUPLINGS & AIR CAPS	
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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 & GEARS	← 2/66 11/65 →											
CONNECTING RODS, TOP ENDS & GUIDES												
	3/64	11/64	5/65	12/65	12/65	11/65						
CRANKPINS & BEARINGS												
	5/65	11/64	11/63	5/65	12/65	12/65						
JOURNALS & BEARINGS	11/64	11/64	3/64	11/65	3/64	11/65	2/66	2/66				
<del>SCAVENGE PUMPS</del>												
<del>SCAVENGE BLOWERS</del>			<del>COMPRESSORS ON MAIN ENGINE</del>				<del>COMPR. COOLERS</del>					
<del>SUPERCHARGER</del>			<del>CLUTCH OR COUPLING</del>				<del>GEARING</del>					
THRUST	2/66		INTERMEDIATE SHAFTING									
HOLDING DOWN BOLTS & CHOCKS			CRANKCASE RELIEF DEVICES				ENGINE TEST 2/66					
MAIN ENGINE DRIVEN PUMPS	<del>BILGE</del>		<del>S.W. COOLING</del>		F.W. COOLING		LUB. OIL		FUEL			

## AUXILIARY ELECTRICAL EQUIPMENT

GENERATORS	CABLES
MOTORS	INSULATION RESISTANCE
SWITCHBOARDS	STEERING
CIRCUIT BREAKERS	NAV. LIGHT. INDICATORS

## AUXILIARY ENGINES

NUMBER & DESCRIPTION	P. Inbd (No. 1)	P. Outbd	Centre	S. Inbd
	3 cyl	6 cyl	3 cyl	3 cyl
	2/66	11/65 2/66	2/66	
	see over page 4 second survey dates.			
	P. Out 6 cyl.			
INDEPENDENT PUMPS FOR AUX. ENGINES	3rd. P - 11/63	S -		

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 & GEARS	11/63	11/63	11/63	12/65	12/65	12/65						
CONNECTING RODS, TOP ENDS & GUIDES	12/64	5/65	1/64	4/64	1/65	11/65						
						12/63						
CRANKPINS & BEARINGS	5/65	2/66	4/64	4/64	5/65	2/66						
JOURNALS & BEARINGS	12/64	12/64	12/64	2/66	2/66	2/66	2/66	11/65				
SCAVENGE PUMPS												
SCAVENGE BLOWERS			COMPRESSORS ON MAIN ENGINE					COMPR. COOLERS				
SUPERCHARGER			CLUTCH OR COUPLING					GEARING				
THRUST			INTERMEDIATE SHAFTING									
HOLDING DOWN BOLTS & CHOCKS			CRANKCASE RELIEF DEVICES					ENGINE TEST				
MAIN ENGINE DRIVEN PUMPS			BILGE		S.W. COOLING		F.W. COOLING		LUB. OIL		FUEL	
INDEPENDENT PUMPS	BILGE ③ EMERGENCY P.F. } 2/66 P.A. }		BALLAST ①		FUEL TRANSFER ② SF SA 2/66		FUEL PRIMING SURCHARGE ② P 2/66 S					
	S.W. COOLING ④ P.O. P.I. S.O. S.T.		F.W. COOLING ④ P.O. P.I. S.O. S.T.		LUB. OIL ④ S.O. 2/66 S.T. 11/65 P.O. P.I. 11/64		FUEL VALVE COOLING AIR PUMP ① 3.66					
	FEED 2 Ford Air. 3/66		GENERAL SERVICE ②		F.W. COOLERS ②		LUB. OIL COOLERS ②					
	FORCED CIRCULATION PUMPS		OTHER PUMPS WITH BILGE CONNECTIONS									
BILGE, BALLAST & O.F. LINES			EVAPORATOR SAFETY VALVES					PROPELLERS 11/65 SEA CONNECTIONS				
OTHER PIPING ARRGTS. & FITTINGS			CONDENSER					STEAM PIPES OVER 3" BORE				
OIL FUEL TANKS			OIL BURNING SYSTEM					STARTING AIR PIPES				
STEERING MACHINERY			WINDLASS					FIRE EXT. SYSTEM				
INDEP. AIR COMPRESSORS			③ driven by aux engines Small emergency S.I. ④ Large S. Out					COMPR. COOLERS				
MAIN AIR RECEIVERS			AUXILIARY AIR RECEIVERS					3/66 in Aux eng room.				

## MINIMUM NUMBER OF GENERATORS REQUIRED FOR ESSENTIAL SERVICES

		1	2	3	4	Compressor Engines
PORT	Cyl					
	TE					
	BE					
	MB			4.64		11/65
				3/66		3/66
CENTRE	Cyl					
	TE					
	BE			11/63		11/63
	MB			3/66		3/66
STBD	Cyl					
	TE					
	BE			12/63		12/63
	MB			11/64		11/64



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# Aux. ENGINEER.

	P. Mtd 3rd	P. Mtd 4th	Centre 3rd	P. Mtd 5th	P. Mtd 6th
Gibbs etc.			<del>11/63</del>		
T.E.					
B.E.					
M.B.					

New 7/63



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