





Main Engine Pumps : Contd...

Bilge, Cooling Water & Lub. Oil Pumps.

Auxiliary Engines (steam). Cylinders, casings, covers, valves & gears, pistons, rods, crosshead & crank pins & brasses, guides & shoes, main bearing journals & brasses.

Auxiliary Engines (Diesel). Cylinder liners, covers & valves, pistons, rods, wrist pins & bushes, crank pins & brasses, main bearing journals & brasses.

Pumps. Condenser Circulating, Ballast, Bilge, Feed, General Service, Donkey Boiler Fuel Oil and Transfer pumps, - Cylinders, chambers, covers, rods, valves & gear, suction & delivery valves or casings, impellers, shafts & bearings.

Compressors (M.E. & Aux.). Cylinders, pistons, rods, crosshead & crank pins & brasses, main bearing journals & brasses, suction & delivery valves.

Starting Air Receivers. Internally & externally complete with fittings.

Condenser. Water boxes, shell, tube plates, doors.

Daily Service Tanks. Internally & externally complete with fittings. Shut off valves fitted with extension gear & per Rule requirements.

Donkey Boiler Fuel Oil Heaters & Filters.

Steam Pipes tested as per Rule requirements.

Pumping Arrangements. Valves, cocks, pipes & strainers.

Electrical Installation : - Generator & Motor armatures, commutators, field coils, shafts & bearing Installation, including test as per Rule requirements.

Repairs (Wear & Tear) : -

Main Engines. Crank shaft lifted, all main bearings remetalled, crank shaft bedded, crank & intermediate shafting realigned.

All pistons renewed.

No.3 liner renewed.

Cam shaft driving gear renewed.

M.E. Scavenge Pump. Main bearing journal skimmed up, bearing remetalled.

M.E. Pumps. Bilge pump chamber liners & buckets renewed.

Cooling water pump chamber liners & buckets renewed.

Lub. Oil pump gears renewed.

Auxiliary Engines (Diesel). Port Generator Engine entablature renewed. Crank shaft, fly wheel liners, pistons and all bearings renewed.

Starboard After Generator Engine, liners, wrist pin bushes, crank main bearing brasses renewed.

Further minor renewals & adjustments to main & auxiliary machinery as found necessary.

Alterations : - The generating set previous installed (starbd ford) and consisting of a 6.5 KW Generator driven by a two cylinder Russel Newbery Engine was removed at this time and replaced by a steam driven generating set consisting of Sunderland Forge single cylinder, enclosed type forced lubricated steam engine, Serial No.62423, 675 R.P.M. 100 lbs. W.P., manufactured under the Society's survey as per Certificate C 3823 issued at Sunderland on 15th December, 1953.

Sunderland Forge generator (No.G6525) 30 K.W., 273 amp, 110 volts, continuous rating compound wound, built 1947 ex M.S. "LAMPANIA".

( Continued on sheet No.2 )

Rpt. 9a.

( 2 )

Port of Hong Kong.

Continuation of Report No. 11993 dated 15th April, 1954. on the

MACHINERY OF THE M.S. "FRENULINA"

Auxiliary Compressor previously driven by the port auxiliary engine now driven by a Lawrence Scott 10 H.P. 110 volt 80 amp 1000 R.P.M. compound wound continuous rating motor.

G.S. Pump now driven by a 6 H.P. 110 volt 48 amp 1000 R.P.M. shunt wound continuous rating motor, but overload & fuses set for 30 amps.

Existing Switch Board adapted to new installation with new switches, fuses and wiring as necessary and to Rule requirements. Please see plan attached.

Satisfactory tests witnessed on completion of alterations.

Particulars of wiring renewed at this time:-

Description	Dia Conductor	Max. Current	Circuit Rule	Insulation	Protection
Navigation Lights	7/.029	1.5	15	Rubber	Lead Covered & Armoured.
Windlass (18 H.P.)	37/.064	150	200	Var Cambric	" " " "
Hot Press	7/.036	9.1	24	Rubber	" " " "
F.W. & Ballast Pump	19/.064	52.5	83	Rubber	" " " "
Midship Thermo Tank	7/.036	7.9	24	Rubber	" " " "
Midship Accom. Lights	7/.064	37	46	Rubber	" " " "
Forecastle Lights	3/.029	2.5	5	Rubber	" " " "
No.3 Generator 30 K.W.	37/.083	273	286	Var Cambric	" " " "
Air Compressor 10 H.P.	19/.052	80	101	Var Cambric	" " " "
G.S. Pump 6 H.P.	19/.064	26	60	Rubber	" " " "
(Utilizing 3 H.P. overload & fuse set for 30 amps).					

Interim Certificate "B.1" issued - copy attached.

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