

COPY



Hong Kong

14th. September 1941.

This is to Certify that

**G. R. ROWCLIFFE**

the undersigned Surveyor to this  
Society did at the request of

Messrs De la Rama S.S.Co.Inc. survey the Twin M.V. "DON ESTEBAN" of Iloilo, 1616 Gross Tons, No.73283 in the Register Book, on the 20th. July 1941 and subsequently whilst the vessel lay afloat and on slipway at The Taikoo Dockyard & Engineering Co. of Hong Kong Ltd. for the purpose of conducting a general survey of the hull and machinery of the said vessel, recommending and examining the necessary repairs and or renewals.

Vessel on slipway from 5th. September 1941 to 10th. September 1941.

HOW DONE.

Vessel placed on slipway, bottom, rudder, keel, stem and A brackets cleaned, examined, placed in good condition and Bottom Boot-Top and Top sides repainted.

Anchors, chain cables ranged, shackle pins knocked out, cables wire brushed and cleaned for inspection and gauging and found in good condition, cables doped with fuel oil before replacing.

Chain locker, hawse pipes and cable compressors examined and placed in good condition.

All holds, peaks, machinery spaces, decks, masts, spars and rigging, hatchways, hatches in position at the hatchway, windlass, steering gear and its connections, rudder quadrant and tiller, pumps, water-tight doors, air and sounding pipes, plating in way of side lights, ventilators, casings, coamings and general equipment, examined and



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(2)

TWIN M.V. "DON ESTEBAN"

found or placed in good condition and recoated.

Freeboards verified.

Ceiling in all holds lifted, bilges and tank tops cleaned and recoated, and now satisfactory.

Cofferdams examined, cleaned and recoated.

All double bottom tanks, deep tanks and bunker examined internally and tested.

Air tanks of life rafts tested and now satisfactory.

MACHINERY

Vessel placed on slipway, propellers, inner and outer propeller shafts, A bracket bushes, stern tube bushes, oil glands, sea valves and outside fastenings examined. Wear down Port stern bush 38/1000. A bracket remetalled, Starboard stern bush 45/1000 A bracket 38/1000.

Port & Starboard main engine cylinders, covers, valves, valve gear, pistons, connecting rods, gudgeon pins and bushes, crank pins and bearings, journals and bearings, thrust and intermediate shafts and bearings, all attached main engine pumps and blowers examined and found or placed in good condition.

Ballast, sanitary, bilge, fresh water, lubricating oil and oil fuel transfer pumps examined.

Lubricating oil coolers cleaned, examined and tested.

Pumps and pumping arrangements tried.

No. 1 & 2 auxiliary generator engines examined throughout with attached clutch driven compressors.

Electric installation, generators and motors examined, megger tested and tried under working conditions and now satisfactory.

REPAIRS.

HULL

Rudder lignum vitae bushes renewed, pitted plates electric welded. Keel shoes fitted forward.

Keel shoes fitted aft.

Two half round chafing bars electric welded Port & Starboard amidship's.

All new rubber fitted to ship side watertight doors.

Seven broken side light glasses removed and all side lights overhauled.

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TWIN M.V. "DON ESTEYAN"MACHINERYDAMAGE REPAIRS.Port Main Engine.

Aft section of bedplate in way of No.7 & 8 cylinder columns renewed.

No.7 & 8 columns fitted with bolted patches.

No.7 cylinder piston cooling pipes forming studs renewed.

No.7 bottom end bearing remetalled and machined.

All port main engine dismantled for access to bedplate.

All bottom halves of main bearings remetalled.

All new chocks and 20 new holding down bolts fitted in new section of bedplate.

New bottom column bolts fitted in new section of bedplate.

Crank shaft tested in lathe and found satisfactory.

Crank shaft bedded down and shaft alignment tested.

On completion of repairs engines tried under full load and working conditions and found satisfactory.

Wear & Tear Repairs.Port Main Engine.

Crank shaft journals skimmed true. (now 269.52 m/m.)

Three bottom end bearings remetalled.

All gudgeon pins built up with electric welding in way of piston bearing surface, piston holes trued up and gudgeon pins machined and refitted.

One complete & one bottom half connecting rod gudgeon pin bush remetalled.

No.3 cylinder liner, corroded jacket side landing machined and two copper rings fitted on liner.

Two patches fitted on cracked cylinder blocks.

One cracked piston head (No.8) renewed.

One cracked cylinder head renewed.

All rocking arm lever bushes renewed & side washers renewed.

Port & Starboard. All exhaust valve seatings in covers machined and all exhaust valve spindle bushing renewed.

Cooling water pump chambers bored out and bronze liners fitted, pistons renewed and valves & seats renewed as required.

Thrust block kidney pads remetalled.

Flywheel bearing remetalled.

Starboard Main Engine.

All liners removed jackets & liners scaled, recoated & liners replaced.

No.7 cylinder liner corroded jacket side landing machined & two copper rings fitted on liner.

Five bottom half & two top half main bearings remetalled.

Three bottom end top half bearings remetalled.

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TWIN M.V. "DON ESTREAN"

Two complete connecting rod gudgeon pin bushes reinstalled.  
 All rocking arm lever bushes renewed and side washers renewed.  
 Cooling water pump chambers bored out, bronze liners fitted,  
 pistons renewed, valves & seats renewed as required.

Port & Starboard propellers renewed.

Port main engine outer propeller shaft renewed.

Port A bracket bush reinstalled.

Port & Starboard propeller shaft oil gland Vicker's rings  
 reinstalled.

Starboard.

No.1 auxiliary engine cooling water pump chamber liner renewed  
 also piston.

One main bearing and one bottom end of compressor driven by  
 No.1 auxiliary engine reinstalled.

Port.

No.2 auxiliary engine one bottom end reinstalled.

One lubricating oil cooler top cover renewed.

Ballast pump impeller, shaft and bushes renewed.

Bilge and sanitary pump impeller shafts and bushes renewed.

Fresh water pump impeller, shaft and bushes renewed.

Electric wiring renewed as required.

*Chas R Rourke*  
 Surveyor to Lloyd's Register.



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