

Rpt. 4c

19 JAN 1959

Date of writing report 12.12.58 Received London Port Belfort No. 2  
Survey held at Belfort No. of visits 14 First date 2.7.57 Last date 8.9.58

## FIRST ENTRY REPORT ON AUXILIARY STEAM TURBINE OR STEAM RECIPROCATING ENGINES

Name of Ship (Or Contract No. if name unknown) Owners (Or Consignees)  
Ship Built at Brest by Ateliers & Chantiers de France Yard No. 227  
Auxiliary turbines or engines made at Belfort by Société Alsthom, Dunkirk. when 1958 Eng. Nos. 3III3 & 3III4  
Total No. of sets and description Two sets of steam turbine auxiliary electrical generating machinery each driving a 750 KW alternator through single reduction gearing.

STEAM TURBINES. No. of turbines per set One BHP per set 1025 Steam pressure 68 kg/cm<sup>2</sup> Steam temperature 460°C  
Type of turbines Impulse/Reaction.  
Particulars of gearing Single Reduction helical  
RPM of turbine shaft(s) 10,000 PCD of pinion(s) 85.333mm PCD of wheel(s) 714.667mm Material of pinion(s) Electric Furnace Cr.Mo.Steel Material of wheel rim(s) Electric furnace Cr.Mo.Steel Has rotor been dynamically balanced? Yes Diameter of rotor shaft at couplings 58mm Does the set include a steam condenser? - Is an emergency governor fitted? Yes No. and purpose of attached pumps 3 lub.oil (one driven, one hand and one associated) Has the set been tested in the shop? Yes If so, for how long at full power? No: 3III3 full power 4 hours. No: 3III4 no load for 2 hours. Was the governing tested and found satisfactory? Yes Was the set tested with driven machinery attached? Yes  
Identification marks LLOYDS & LLOYDS TEST and particulars. Particulars of driven machinery Alternators  
Nos. 371826/27 respectively for above engine numbers. A.C. three phase, 60 cycle, 450 Volts 1200 R.P.M. 750 KW. each having driven Exciter rated at 8 KW - 41 Volts, 195 Amps compound wound serial Nos. 377930/31 respectively.

STEAM RECIPROCATING ENGINES. BHP of each at RPM Steam pressure  
Dia. of cylinders Stroke Dia. of crankshaft journals Pins Material of crankshaft Is crankcase enclosed? If so, is the internal volume 20 cu. ft. or over? No. and total area of crankcase explosion relief devices fitted? Are the bearings forced lubricated? No. and purpose of attached pumps  
Is a Governor Fitted? Identification Marks  
Particulars of Driven Machinery

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over Belfort Nos. 208a & 208b BFT.  
For generators under 100 Kw., has Makers' Certificate been obtained? Are Certificates attached?

The foregoing description is correct.

Société des Constructions Electriques et Mécaniques

ALSTHOM

Groupe Gros Matériel Mécanique  
L'Ingénieur en Chef du Service  
des Turbines à Vapeur et à Gaz

Manufacturer

Is this machinery duplicate of a previous case? No If so, which?

GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters. State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

The above auxiliary electrical generating machinery has been constructed under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The quality of materials and workmanship is good.

This machinery has been dispatched to Brest for installation in the ship, final testing and completion in accordance with the Rules.

Survey Fee 141.000 Fr  
Expenses 25.600 Fr

Date when a/c rendered

W.R. Cromeey  
Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the SS ESSO NORWICH at BREST in a proper manner and found satisfactory when tested on the (date) 8/4/1959 under full working conditions.

(T.S. LEIGHTON)  
Engineer Surveyor to Lloyd's Register