

REPORT ON STEAM TURBINE MACHINERY. No. 11900.

Rpt. 4a.

Received at London Office 7 DEC 1945

Date of writing Report 14 April 45 When handed in at Local Office 10 Port of Copenhagen
No. in Survey held at Copenhagen and Elinore Date, First Survey 27 January 44 Last Survey 12 April 1945
Engines made at Elinore By whom made Finnbooda Ved Skibolagtard No. 332
Boilers made at Copenhagen By whom made Helsingors Maskinfabrik Engine No. 410
Nom. Horse Power as per Rule 243.07 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

STEAM TURBINE ENGINES, &c.—Description of Engines Exhaust steam turbine

No. of Turbines Ahead One Direct coupled, single reduction geared to one L.P. propelling shaft.
direct coupled to Alternating Current Generator phase periods per second rated Kilowatts Volts at revolutions per minute;
for supplying power for driving Propelling Motors, Type rated Kilowatts Volts at revolutions per minute.

TURBINE BLADING table with columns: H.P., I.P., L.P., ASTERN. Rows: 1ST EXPANSION, 2ND, 3RD, 4TH, 5TH, 6TH, 7TH, 8TH, 9TH, 10TH, 11TH, 12TH. Includes blade height and diameter data.

Shaft Horse Power at each turbine H.P. 350
Rotor Shaft diameter at journals H.P. 75 1/4
Distance between centres of pinion and wheel faces and the centre of the adjacent bearings
Flexible Pinion Shafts, diameter 1st 130 1/4
Wheel Shafts, diameter at bearings 1st 180.78 1/2 - 165 1/2
Intermediate Shafts, diameter as per rule
Screw Shaft, diameter as per rule
Thrust Shaft, diameter at collars
Tube Shaft, diameter as per rule
Bronze Liners, thickness in way of bushes as per rule

Propeller, diameter Pitch No. of Blades State whether Movable Total Developed Surface square feet.
Condenser No. of Turbines fitted with astern wheels Feed Pumps No. and size How driven
Pumps connected to the Main Bilge Line No. and size How driven
Ballast Pumps, No. and size
Main Water Circulating Pump Direct Bilge Suctions, No. and size
Independent Power Pump Direct Suctions to the Engine Room

BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers _____ Working Pressure _____
 Is Forced Draft fitted _____ No. and Description of Boilers _____
 Is a Report on Main Boilers now forwarded? _____
 Is { a Donkey } Boiler fitted? _____ If so, is a report now forwarded? _____
 { an Auxiliary }
 Plans. Are approved plans forwarded with for Shafting _____ Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not, state date of approval) _____
 Superheaters _____ General Pumping Arrangements _____ Oil Fuel Burning Arrangements _____
 Spare Gear. State the articles supplied:— _____

AKTIESELSKABET ATLAS

7890 rmm pp Peter Gaud

The foregoing is a correct description, _____ Manufacturer. _____

Dates of Survey while building { During progress of work in shops -- } 1944: 27/1-1/3-26/5-7/9-25/9-9/11-14/11 1945 4/1-7/2-14/2-20/2-13/3-12/4
 { During erection on board vessel --- }
 Total No. of visits 13.
 Dates of Examination of principal parts—Casings 26/5 Rotor and Shaft } 27/1-1/3-26/5 Blading 1/3-26/5 Gearing 27/1-1/3-26/5-2/5
 Wheel shaft 26/5 Thrust shaft _____ Intermediate shafts _____ Tube shaft _____ Screw shaft _____
 Propeller _____ Stern tube _____ Engine and boiler seatings _____ Engine holding down bolts _____
 Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam _____
 Main boiler safety valves adjusted _____ Thickness of adjusting washers _____
 Rotor and Rotor shaft, Material and tensile strength J.M. high tensile steel forging 85.4 kg/147" Identification Mark # 26.5.44 LLOYD'S NO 1607
 Flexible Pinion Shaft, Material and tensile strength _____ Identification Mark _____
 Pinion shaft, Material and tensile strength J.M. high tensile steel forging 99.2 kg/147" Identification Mark # 25.9.44 LLOYD'S NO 6106
 1st Reduction Wheel Shaft, Material and tensile strength " " " " 95.5 " " Identification Mark # 26.5.44 LLOYD'S NO 9183
 WHEEL RIMS " " " " 73.3 " " Identification Mark # 26.5.44 LLOYD'S NO 1581
 Wheel shaft, Material _____ Identification Mark _____ Thrust shaft, Material _____ Identification Mark # 26.5.44
 BIG CHAIN WHEEL J.M. Steel Identification Marks # 20.2.45 LLOYD'S NO 6214-SMALL CHAIN WHEEL Identification Marks # 20.2.45 LLOYD'S NO 6215
 Intermediate shafts, Material _____ Identification Marks _____
 LAY shaft, Material J.M. Steel Identification Marks # 20.2.45 Steam Pipes, Material _____ Test pressure _____

Date of test _____ Is an installation fitted for burning oil fuel _____
 Is the flash point of the oil to be used over 150°F. _____ Have the requirements of the Rules for carrying and burning oil fuel been complied with _____
 Is this machinery a duplicate of a previous case _____ If so, state name of vessel Finnboda Yard No 331.
 Skinox Engine No 392.

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The exhaust steam turbine plant has been built under Special Survey in accordance with the Rules and the approved plans.
 The material has been tested as required by the Rules and the workmanship is good.
 An interim certificate issued as per copy enclosed.

Recommend the notation of "L.P. turbine with S.R. gearing and chain drive" to be made in the Register Book.

The amount of Entry Fee ... £ : :
 Special ... £ 4.30v. : :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 16.4.45
 When received, 19.

L. Clausen, P. Langhild Jensen
 Engineer Surveyors to Lloyd's Register of Shipping

Committee's Minute FRI. 10 JAN 1947

Assigned Su F.E. meby. opt.

