

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11143

Received at London Office APR - 8 1940

Date of writing Report 27th March 40 When handed in at Local Office 10 Port of Copenhagen

Survey held at Copenhagen & Odense Date, First Survey 13 March 1939 Last Survey 17th March 1940

Reg. Book. HOEGA Number of Visits 31.

on the ~~Single~~ ~~Triple~~ ~~Quadruple~~ MOTOR Screw vessel "SILVERDAWN."

Tons { Gross 77 1/4, 73. Net 47 29, 96.

Built at Copenhagen By whom built Burmeister & Wain Yard No. 648. When built 1940.

Owners Skibsselskabets "Arizona" (Leif Hoegh) Port belonging to Oslo

Oil Engines made at Copenhagen By whom made Burmeister & Wain Contract No. 3048-49-50 When made 1940

Generators made at Odense By whom made Thomas B. Thrige Contract No. 233270-71-72 When made 1939

No. of Sets 3 Engine Brake Horse Power 180 Nom. Horse Power as per Rule Total Capacity of Generators 360 Kilowatts.

IL ENGINES, &c.—Type of Engines Diesel, trunk piston, solid injection 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 49 kg/cm² Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 3 No. of cranks 3.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 280 mm Is there a bearing between each crank Yes.

Revolutions per minute 400 Flywheel dia. 1200 mm Weight 1550 kgs. Means of ignition Compression Kind of fuel used Heavy oil

as per Rule 130 mm Crank Shaft, dia. of journals 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 245 mm Thickness parallel to axis 85 mm

as fitted 75 mm crank web Mid. length thickness 85 mm Thickness around eyehole 67.5 mm

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 18 mm.

as fitted Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged

Cooling Water Pumps, No. Independent Pumps Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 off - 4.5 ltr/hr for each engine. (gearwheel type)

vacuuming-Air Compressors, No. 1 off on each engine No. of stages 2 Diameters A 280 mm. B. 280-250 mm Stroke 190 mm Driven by the engine

factu Scavenging Air Pumps, No. 1 off on each engine Diameter Rotary cap. 22.5 m³/min. each Driven by the engine

IR RECEIVERS:—Have they been made under Survey Yes. State No. of Reception Certificate 863.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes.

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

EMERGENCY Starting Air Receivers, No. 1 off Total cubic capacity 200 litres Internal diameter 380 mm thickness 11.0 mm

Seamless, lap welded or riveted longitudinal joint lap welded Material S.M. Steel Range of tensile strength 28.9 kg/cm² Working pressure by Rules 38.3 Atm.

ELECTRIC GENERATORS:—Type drip proof, ventilated.

Pressure of supply 220 volts. Full Load Current 545 Amperes. Direct or Alternating Current direct

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes

Generators, are they compounded as per rule Yes is an adjustable regulating resistance fitted in series with each

shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey Yes.

PLANS. Are approved plans forwarded herewith for Shafting Yes Receivers 3/2/1935 Separate Tanks

(If not, state date of approval)

PAIRE GEAR supplied as per Rules.

The foregoing is a correct description.

AKTIESELSKABET
BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI

A. Hornum

Manufacturer.



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Dates of Survey while building
During progress of work in shops - 13/3-4/4-3/5-7/6-21/7-2/8-4/8-10/8-21/8-22/8-24/8-26/8-1/9-4/9-7/9-28/9-23/9 1939-19/1/1940
During erection on board vessel - 24/1-29/1-2/2-5/2-8/2-20/2-1/3-8/3-11/3-12/3-15/3-16/3-17/3-1940
Total No. of visits 31

Dates of Examination of principal parts—Cylinders with Covers 2/8 Pistons 2/8 Piston rods ✓

Connecting rods 13/3-4/4-31/5 Crank and Flywheel shafts 21/7-4/8-4/9-20/9 Intermediate shafts ✓

Crank and Flywheel shafts, Material S. M. Steel Identification Marks Hepai No 4938-39-40 K.L. 20.9.39

Intermediate shafts, Material S. M. Steel Identification Marks Hepai No 4732 K.L. 31.5.39

Identification marks on Air Receiver EMERGENCY No 863. Hepai Test 60 Flm. W.P. 28 Flm. K.L. 23.9.39.

Is this machinery duplicate of a previous case? No If so, state name of vessel M.S. 'Moodale'

General Remarks (State quality of workmanship, opinions as to class, &c.)

The above generator sets have been constructed and fitted under special survey in accordance with the Society's Rules and the approved plan. The workmanship is of good description. The generator sets have been tested under working condition and found to work satisfactorily.

The amount of Fee ... £ ✓ :
Travelling Expenses (if any) £ ✓ :
When applied for, 19...
When received, 19...

L. Laurence B. H. Vesbery
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See minute on F.E. Mely Rpt



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