

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 10720

NOV -1 1938

Writing Report 28<sup>th</sup> Oct. 1938 When handed in at Local Office 29<sup>th</sup> Oct. 1938. Port of Copenhagen.  
Survey held at Copenhagen-Odense-Nakskov Date, First Survey 1<sup>st</sup> April 1937 Last Survey 19<sup>th</sup> October 1938.  
Number of Visits 36.

On the Single Screw vessel "SELANDIA" Tons { Gross 8482.25  
Net 5170.45

Nakskov By whom built A/S. Nakskov Skibsværft Yard No. 86 When built 1938.

A/S. Det Polske Asiatiske Kompagni Port belonging to Copenhagen.

Engines made at Copenhagen By whom made Burmeister & Wain Contract No. 2772-73-74 When made 1938.

Generators made at Odense By whom made Thomas B. Thrigs Contract No. 230098-099-100 When made 1938.

Sets 3. Engine Brake Horse Power 200. Nom. Horse Power as per Rule Total Capacity of Generators 405. Kilowatts.

ENGINES, &c.—Type of Engines Vertical, trunk piston, solid injection or 4 stroke cycle 2 Single or double acting single  
Pressure in cylinders 49 kg/cm<sup>2</sup> Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 3 No. of cranks 3.

Bearings, adjacent to the Crank, measured from inner edge to inner edge 276 mm Is there a bearing between each crank Yes.  
Revolutions per minute 400 Flywheel dia. 1200 mm Weight 1550 kg. Means of ignition Compression Kind of fuel used Heavy oil

Shaft, dia. of journals as per Rule 124 mm as fitted 150 mm Crank pin dia. 150 mm Crank Webs Mid. length breadth 242 mm Thickness parallel to axis 85 mm  
as fitted 75 mm central hole Mid. length thickness 85 mm Thickness around eye-hole 67.5 mm

Intermediate Shafts, diameter as per Rule 124 mm as fitted 150 mm Thickness of cylinder liners 18 mm

Arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced.  
Cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged.

Water Pumps, No. 2 off independent 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 for each engine, gearwheel type capacity 5.5 m<sup>3</sup>/hour

Compressors, No. 1 No. of stages 1 Diameters 150 mm Stroke 150 mm Driven by Electric  
Suctioning Air Pumps, No. 1 off for each engine Capacity 22.5 m<sup>3</sup>/min Driven by chain from crankshaft

RECEIVERS:—Have they been made under Survey Yes State No. of Report Certificate 830.  
Receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Yes.  
A drain arrangement fitted at the lowest part of each receiver Yes.

Pressure Air Receivers, No. 1 Cubic capacity of each 200 litres Internal diameter 380 mm thickness 11 mm  
Lap welded or riveted longitudinal joint lap welded Material S.M. Steel Range of tensile strength 40 kg/mm<sup>2</sup> Working pressure by Rules 33.6 kg/cm<sup>2</sup>

Electric Generators:—Type trip proof, ventilated  
Voltage of supply 220 volts. Full Load Current 614 Amperes. Direct or Alternating Current direct

Operating current system, state the periodicity Yes 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 Yes.

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

Are the lubricating arrangements of the generators as per Rule Yes.

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

Generators are 100 kw. or over have they been built and tested under survey Yes.

Are approved plans forwarded herewith for Shafting Yes Receivers Yes Separate Tanks Yes

GEAR supplied as required by the Rules.

The foregoing is a correct description,

AKTIESELSKABET BURMEISTER & WAINSKIN-OESKIBSVOERET

Manufacturer.



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Dates of Survey while building { During progress of work in shops - 1/4 - 22/4 - 4/8 - 7/10 - 25/10 - 8/11 - 13/11 - 13/12 - 14/2 - 16/12/1937 - 6/1 - 10/1 - 13/1 - 15/1 - 20/1 - 22/1 - 28/1 - 2/2 - 4/2  
During erection on board vessel - 9/5 - 25/7 - 12/8 - 15/8 - 25/8 - 30/8 - 3/9 - 13/9 - 24/9 - 5/10 - 7/10 - 8/10 - 17/10 - 18/10 - 19/10/1938.  
Total No. of visits 35.

Dates of Examination of principal parts—Cylinders *wilds* Covers 6/1-10/1-2/2/1938 Pistons 2/2-4/2/1938 Piston rods *✓*  
Connecting rods 1/4-22/4-4/8/1937. Crank and Flywheel shafts 7/10-13/11-14/12/1937-6/1/1938 Intermediate shafts *✓*  
Crank and Flywheel shafts, Material *S. m. Steel* Identification Marks *bloys No 3989-90-91. C.V. 6.1.38.*  
Intermediate shafts, Material *✓* Identification Marks *✓*  
Identification marks on Air Receiver *No 820. bloys Test 56 Hbm. W.P. 28 Hbm. C.V. 2.1.2.38.*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *M.S. "Höegh Silverstar."*

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

*The above generator sets have been constructed under special survey, in accordance with the Rules requirements and the approved plans.  
The workmanship is of good description throughout.  
On completion and when installed on board the generator sets were tested under full power working condition and found to be working satisfactorily.*

Im.5.37.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

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

Committee's Minute  
Assigned

TUE 8 NOV 1938  
*See Cpm. JE 10720*

*J. R. Langhite, Secy. A. H. Westbury.*  
Surveyor to Lloyd's Register of Shipping.