

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 10742.

28 Nov. 1938

Received at London Office

DEC 1938

Date of writing Report

Port of

Copenhagen

Survey held at Copenhagen & Odense Date, First Survey 20<sup>th</sup> April 1937. Last Survey 24/11 1938

Number of Visits 32.

on the Single Screw vessel "HULDA MÆRSK"

Tons { Gross 5750  
Net 3390

By whom built Odense Skibskonstruktørfabrik Yard No. 75 When built 1938.

Port belonging to Copenhagen

Engines made at Copenhagen By whom made Bürmeister & Wain Contract No. 3835-36-37 When made 1938.

Generators made at Odense By whom made Thomas B. Thrigo Contract No. 230966-67-68 When made 1938.

of Sets 3. Engine Brake Horse Power 170. Nom. Horse Power as per Rule Total Capacity of Generators 336. Kilowatts.

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

Maximum 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

of bearings, adjacent to the Crank, measured from inner edge to inner edge 284 mm Is there a bearing between each crank yes

Revolutions per minute 360 Flywheel dia. 1200 mm Weight 1550 kg. Means of ignition Compression Kind of fuel used Diesel oil

Crank 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

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

governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced.

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

ing Water Pumps, No. 2 off independent Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes.

ricating Oil Pumps, No. and size One off for each engine, gearwheel type, capacity 4.5 Tons/Hour each.

Compressors, No. One off for each engine No. of stages two Diameters 19.8 m<sup>3</sup>/min Stroke Rotary Driven by chain from crank shaft

16/3 RECEIVERS:—Have they been made under Survey yes State No. of Report Certificate 834.

h receiver, which can be isolated, fitted with a safety valve as per Rule yes

the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces ✓

are a drain arrangement fitted at the lowest part of each receiver yes

Pressure Air Receivers, No. ✓ Cubic capacity of each 200 litres Internal diameter 380 mm thickness 110 mm

ss, lap welded or riveted longitudinal joint ✓ Material S.M. Steel Range of tensile strength 41.8 kg/mm<sup>2</sup> Working pressure by Rules 35.2 kg/cm<sup>2</sup>

ing Air Receivers, No. one off Total cubic capacity 200 litres Internal diameter 380 mm thickness 110 mm

ss, lap welded or riveted longitudinal joint lap welded Material S.M. Steel Range of tensile strength 41.8 kg/mm<sup>2</sup> Working pressure by Rules 35.2 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type frp proof, ventilated.

ire of supply 220 Volts. Full Load Current 510 Amperes. Direct or Alternating Current direct.

Generating 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

ators, 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.

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.

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

generators are 100 kw. or over have they been built and tested under survey yes.

S. Are approved plans forwarded herewith for Shafting yes Receivers 4/2-1935. Separate Tanks ✓

E GEAR supplied as required by the Rules.

foregoing is a correct description,  
AKTIESELSKABET  
MEISTER & WAIN'S MASKIN- OG SKIBSBYGGERI  
A. Houmoller

Manufacturer.



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Lloyd's Register  
Foundation

006160-006174-0053

Dates of Survey while building  
 During progress of work in shops - -  
 During erection on board vessel - - -  
 Total No. of visits

20/4 - 26/4 1937 - 10/1 - 15/2 - 23/2 - 28/4 - 2/5 - 5/5 - 6/5 - 1/6 - 15/6 - 29/6 - 18/7 - 2/7 - 26/7 - 30/7 - 1/8 - 4/8 - 9/8 - 1/9 - 9/9 - 1938  
 6/9 12/9 27/9 11/10 24/10 28/10 1/11 21/11 24/11 1738  
 32

Dates of Examination of principal parts - Cylinders with Covers 7/6 - 21/7 - 27/7-38 Pistons 21/7 - 30/7-38 Piston rods ✓  
 Connecting rods 20/4 - 26/4 1937 - 10/1 1938 Crank and Flywheel shafts 19/2 - 23/2 - 2/5 - 29/6 1938 Intermediate shafts ✓

Crank and Flywheel shafts, Material S. M. Steel Identification Marks Lloyd's No 4198-99-4200 CV. 29.6-38  
 Intermediate shafts, Material ✓ Identification Marks ✓  
 Identification marks on Air Receivers No 834. Lloyd's Test 56 Hbm.  
 W.P. 28 Hbm  
 CV. 9. 8-38.

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

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.

1m. 5. 31. - Transfer.  
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

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

Committee's Minute  
 Assigned  
 TUE 31 JAN 1939  
*See PE machy rpl.*

*Christophe de Vries*  
 Surveyor to Lloyd's Register of Shipping.

