

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11387.

13/4 4c.

10/0.

11 Writing Report 29<sup>th</sup> March 1941 When handed in at Local Office 19 Port of Copenhagen 25 AUG 1945

Survey held at Copenhagen - Skibshavn Date, First Survey 14th March 39 Last Survey 3<sup>rd</sup> March 1941

on the Single Screw vessel "HENNING MÆRSK" Number of Visits 8

at Copenhagen By whom built Skibskonstruktørbureauet Yard No. 93 When built 1941

Engines made at Copenhagen By whom made Skibskonstruktørbureauet Port belonging to Copenhagen

Generators made at Copenhagen By whom made Skibskonstruktørbureauet Contract No. 4599 When made 1941

Engine Brake Horse Power 30/36 Nom. Horse Power as per Rule 27.6 Total Capacity of Generators 18 Kilowatts.

ENGINES, &c.—Type of Engines Vertical Diesel Injection 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 kg/cm<sup>2</sup> Diameter of cylinders 135 mm Length of stroke 180 mm No. of cylinders 4 No. of cranks 4

of bearings, adjacent to the Crank, measured from inner edge to inner edge 138 mm Is there a bearing between each crank yes

Revolutions per minute 600 Flywheel dia. 675 mm Weight 264 kg Means of ignition compression Kind of fuel used Heavy oil

Shaft, dia. of journals as per Rule 71.5 mm as fitted 95 mm Crank pin dia. 85 mm Crank Webs Mid. length breadth 135 mm Mid. length thickness 37 mm Thickness parallel to axis shrunk Thickness around eyehole shrunk

Intermediate Shafts, diameter as per Rule shrunk as fitted shrunk Thickness of cylinder liners 15 mm

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

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes water cooled silencers lagged exhaust pipes

Water Pumps, No. 1 off 800 litres/min 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 400 litres/min

Compressors, No. 1 No. of stages 1 Diameters 150 mm Stroke 150 mm Driven by electric

Manufacturing Air Pumps, No. 1 Diameter 150 mm Stroke 150 mm Driven by electric

RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate 11387

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 1000 litres Internal diameter 150 mm thickness 10 mm

Working Air Receivers, No. 1 Material steel Range of tensile strength 40 kg/cm<sup>2</sup> Working pressure by Rules 10 kg/cm<sup>2</sup>

TRIC GENERATORS:—Type Drum Full Load Current 164 Amperes. Direct or Alternating Current direct

Are all terminals accessible, clearly marked, and furnished with sockets yes Is an adjustable regulating resistance fitted in series with each no

Are the lubricating arrangements of the generators as per Rule yes and do the results comply with the requirements yes

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

GEAR as per Rules

The foregoing is a correct description,

NAKROV SKIBSVÆRFT

Manufacturer.



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004603-004611-0038



Dates of Survey while building { During progress of work in shops - - 14/11-11/12-1939  
 During erection on board vessel - - - 22/2-29/3-30/4-17/5-27/9-1940-3/11-1941  
 Total No. of visits 8

Dates of Examination of principal parts—Cylinders and Covers 14/11-39 Pistons 14/11-39 Piston rods -  
 Connecting rods 11/12-39 Crank and Flywheel shafts 14/11-39 Intermediate shafts -  
 Crank and Flywheel shafts, Material S. cl. S. Steel Identification Marks LLOYD'S NO 4630 of 14.11  
 Intermediate shafts, Material - Identification Marks -  
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Bukh Standard eng. Type*  
 General Remarks (State quality of workmanship, opinions as to class, &c. *The above generating set has been constructed and fitted under Special Survey in accordance with Rules, the approved plans and the requirements contained in Secretary's letter.*  
*The material used in construction has been tested as required by the Rules, and the workmanship is good.*

The amount of Fee ... *£175.00* When applied for, 6.11.1941  
 Travelling Expenses (if any) *£29.50* When received, 19.....

Committee's Minute *FRI. 1 FEB 1946*  
 Assigned *See minute on JE. rpb*

*J. Langhorne Jones*  
 Surveyor to Lloyd's Register of Shipping.