

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 14697

25 JUN 1954

Date of writing Report 19 When handed in at Local Office 19 Port of Copenhagen
 No. in Survey held at Copenhagen & Høleby Date, First Survey 4/11/53 Last Survey 20th May 1954
 Reg. Book. on the Single Double Triple Quadruple Screw vessel M/V "INGER SKOU"
 Built at Copenhagen By whom built A/d. Burmeister & Wain Yard No. 715 When built 1954
 Owners Ove Skou Port belonging to Copenhagen
 Oil Engines made at Høleby By whom made A/S Burmeister & Wain Engine No. 5234, 5235 When made 1954
 Generators made at Odense By whom made Ths. B. Thørig Generator No. 3009218, 3009219 When made 1954
 No. of Sets 3 B.H.P. of each Set 300 M.N. of each Set as per Rule 60 Capacity of each Generator 200 Kilowatts
 Is Set intended for essential services Yes

OIL ENGINES, &c. Type of Engines DM.525 MTH-40 Trunk piston type. Solid injection. 3 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 60 kg/cm² Diameter of cylinders 245 mm Length of stroke 400 mm No. of cylinders 5 No. of cranks 5
 Mean indicated pressure 7.2 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 315 mm
 Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m² Kg.-cm.²) 1135
 Flywheel dia. 1350 mm Weight 1050 kg. balance wts. 44.2 Revolutions per minute 500 Heavy oil.
 Crank Shaft, Solid forged dia. of journals as per Rule 152 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 292 mm Thickness parallel to axis 90 mm
 Semi-built as fitted 170 mm Mid. length thickness 90 mm shrunk Thickness round eye hole 82.5 mm
 Flywheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m² Kg.-cm.²) 840 Kg.m²
 Are means provided to prevent racing of the engine Yes Means of lubrication Forced Kind of damper if fitted
 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. and how driven 1-FW } 30T/H - Electric motor 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 6.9 m³/h.

Air Compressors, No. No. of stages Diameters Stroke Driven by
 Scavenging Air Pumps or Blowers, No. How driven

AIR RECEIVERS: Have they been made under Survey Yes State No. of Report or Certificate 1209
 (other than main engines)
 State full details of safety devices Safety valve, and fusible plug.

Can the internal surfaces of the receivers be examined and cleaned Yes
 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

Starting Air Receivers, No. 1 Total cubic capacity 300 litres Internal diameter 410 mm thickness 8 mm
 Cover - Cast steel
 Seamless, lap welded or riveted longitudinal joint Elec. welded Material Shell-S.M.I. SFL. Range of tensile strength Shell-45 kg/mm² Working pressure 25 atmos
 ELECTRIC GENERATORS: Type Drip proof protected - compound 45 kg/mm²

Pressure of supply 220 volts. Full Load Current 910 Amperes. Direct or Alternating Current Direct

If alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full 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

Details of driven machinery other than generator

PLANS: Are approved plans forwarded herewith for Shafting Yes Receivers No. 20/2/53 Separate Tanks

Have Torsional Vibration characteristics if applicable been approved Yes 14/10/52 Armature shaft Drawing No. 210852
 (State date of approval and name of previous duplicate case, if any)

Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

AKTIESELSKABET
 BURMEISTER & WAIN'S MASKIN- OG FABRISBYGGERI Manufacturer.



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003581-003590-0196

Dates of Survey while building
During progress of work in shops - - 4/11, 24/11, 11/12/53
During erection on board vessel - - 1954 - 17/2, 24/3, 22/4, 10/5, 20/5
Total No. of visits 8

Dates of Examination of principal parts - Cylinders 24/11/53 Covers 24/11/53 Pistons 24/11/53 Piston rods ✓

Connecting rods 24/11/53 Crank and Flywheel shafts 24/11/53 Intermediate shafts ✓

Material Throws - Cast Steel Journals - S.M.I. Steel Tensile strength 46.4 kg/mm²
Elongation 34% 33% Identification Marks Lloyd's No. 9693-9700-9701 K.H. 24/11/53

Generator Flywheel shaft, Material S.M.I. Steel Identification Marks Lloyd's No. 9747 K.H. 24/11/53

Identification marks on Air Receivers Lloyd's Test 50 atmos W.P. 25 atmos No 1209 CPN. O.L. 25/11/53

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These three oil engine generator sets have been built and installed on board the vessel under Special Survey, in accordance with the Rules, the approved plans and the Secretary's letters.

The material used has been tested in accordance with the Rules, and the workmanship is good.

On completion the generator sets were tested under full power working conditions in the shop and after installation on board the vessel, and found in efficient condition.

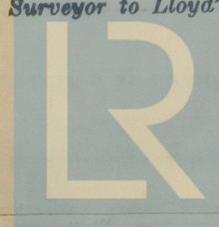
The amount of Fee ... Kr. 1320.⁰⁰
Starting Air Vessel No 1209 Kr. 80.⁰⁰
Travelling Expenses (if any) Kr. 40.⁰⁰
When applied for 24.6 19.54
When received 19

Committee's Minute

Assigned See Rpt. 46.

FRIDAY 30 JUL 1954

Surveyor to Lloyd's Register of Shipping



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