

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 14490

DEC 1953

Received at London Office

Date of writing Report 18th Nov. 1953 When handed in at Local Office 19 Port of Copenhagen
No. in Survey held at Høleby Date, First Survey 16th March Last Survey 10th Sept. 1953
Number of Visits 5

Single on the Twin Triple Quadruple Screw vessel "SALAMIS"
Built at Hoboken, Belgium By whom built John Cockerill Yard No. 764 When built
Engines made at Høleby By whom made Burmeister & Wain Engine No. 5389 When made 1953
Generators made at Odense By whom made Thos. B. Thrige Generator No. 3009153 When made 1953
No. of Sets 1 B.H.P. of each Set 135 M.N. of each Set as per Rule 27 Capacity of each Generator 90 Kilowatts
Set intended for essential services

OIL ENGINES, &c.—Type of Engines D.M. 320 M.V.B.H. - 30 ^{Recharged, crank piston type} Solid injection 2 or 4 stroke cycle 4 Single or double acting single
Maximum pressure in cylinders 60 kg/cm² Diameter of cylinders 205 mm Length of stroke 300 mm No. of cylinders 3 No. of cranks 3
Mean indicated pressure 9.1 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 264 mm
Is there a bearing between each crank? Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 1300 kgm² Revolutions per minute 540
Flywheel dia. 1250 mm Weight 1350 kg Means of ignition Compression Kind of fuel used Heavy oil F.P. above 150° F
Crank Shaft, Solid forged Semi-built All built dia. of journals as per Rule 135 mm Crank pin dia. 135 mm Crank Webs Mid. length breadth 232 mm Thickness parallel to axis 76 mm
Mid. length thickness 76 mm Thickness round eyelets 63 mm
Flywheel Shaft, diameter as per Rule 160 kgm² as fitted

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 off 2 w. } electn driven Is the sea suction provided with an efficient strainer which can be cleared within the vessel?
Lubricating Oil Pumps, No. and size 1 off 3.6 m³/hour
Air Compressors, No. No. of stages Diameters Stroke Driven by
S scavenging Air Pumps or Blowers, No. How driven

AIR RECEIVERS:—Have they been made under Survey? Yes State No. of Report or Certificate No 1179
(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 off Total cubic capacity 150 liter Internal diameter 335 mm thickness 8 mm
Seamless, lap welded or riveted longitudinal joint electn welded material S.M. Steel Range of tensile strength Working pressure 25 Atm

ELECTRIC GENERATORS:—Type Dripproof ventilated, compound dynamo type C.L.P. Direct
Pressure of supply 115 volts Full Load Current 780 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?
If the 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
If the generators are 100 kw. or over have they been built and tested under survey?

Details of driven machinery other than generator none
PLANS.—Are approved plans forwarded herewith for Shafting? Yes Receivers? Yes Separate Tanks?
(If not, state date of approval)
Have Torsional Vibration characteristics if applicable been approved? Yes 7th May 1953 Armature shaft Drawing No. 212073
(State date of approval and name of previous duplicate code, 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 SVÆSEBYGGERI Manufacturer.

[Handwritten signatures]



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Dates of Survey while building: During progress of work in shops - - 16/3 - 12/5 - 4/8 - 13/8 - 10/9 1953
During erection on board vessel - - -
Total No. of visits 5

Dates of Examination of principal parts - Cylinders 4/8 Covers 4/8 Pistons 4/8 Piston rods -

Connecting rods 4/8 Crank and Flywheel shafts 4/8 Intermediate shafts -

Crank shaft: Material: journals cast S.M.S. steel; journals S.M.S. steel; Tensile strength: 30,4 tons; 28,9 tons; Identification Marks: Lloyd's No 9339 KH 4-8-53

Elongation: journals 37,4% on 2"; journals 35,4% on 2"; Flywheel shaft, Material: - Identification Marks: -

Identification marks on Air Receivers: No 1179 Lloyd's test 50 Atm W.C. 25 Atm O.L. 12-5-53

Is this machinery duplicate of a previous case - If so, state name of vessel -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The above heavy oil engine have been built under Special Survey in accordance with requirements contained in the secretary's letter dated Eng. 8th July 1952 - 10th January 1953 - 19th May 1953
The material used have been tested as required by the Rules and the workmanship is good.
On completion the engine was tested under working conditions full power in the shop and found satisfactory.

* Air receiver No 1179 account to Burmeister - Wain.

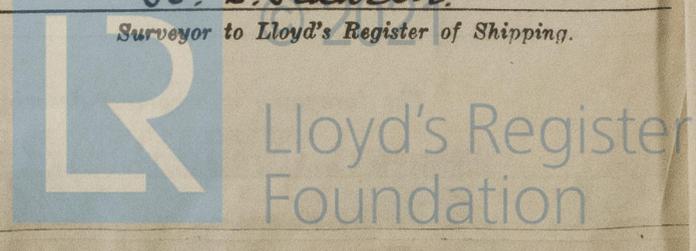
The amount of Fee ... £ 260,00
* Air receiver No 1179 - 80,00
Travelling Expenses (if any) £ : 50,00
When applied for 1/12 1953
When received 19

FRIDAY 9 - JUL 1954

Committee's Minute

Assigned See Rpt. 46.

A. L. Hansen
Surveyor to Lloyd's Register of Shipping.



4in. 5.62-T. (LADY AND PALMER IN ENGLAND)
(The Surveyors do request not to write on or below the space for Committee's Minute.)