

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11015

Received at London Office 6 OCT 1939

Date of writing Report 19/9 39 When handed in at Local Office 19 Port of Copenhagen.
 No. in Survey held at Copenhagen & Odense Date, First Survey 15 March 1938 Last Survey 15/9 1939
 Reg. Book. 33954 on the Single Twin Triple Quadruple Screw vessel "SOMMELSDYK" Number of Visits 35

Tons { Gross 7227.14
 Net 5517.53

Built at Odense By whom built Odense Staalskibsvaerk Yard No. 79 When built 1939
 Owners Nederl.-Amerika Steamv. Maats. Port belonging to Rotterdam
 Oil Engines made at Copenhagen By whom made Burmester & Wain Contract No. 2947-48-49 When made 1939
 Generators made at Odense By whom made Thomas B. Thirge Contract No. 232000-1-2 When made 1939
 No. of Sets 3 Engine Brake Horse Power 360 Nom. Horse Power as per Rule ✓ Total Capacity of Generators 720 Kilowatts.

OIL 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/cm² Diameter of cylinders 220 mm Length of stroke 370 mm No. of cylinders 6 No. of cranks 6
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 300 mm Is there a bearing between each crank Yes
 Revolutions per minute 400 Flywheel dia. 980 mm Weight 1310 kgs. Means of ignition Compression Kind of fuel used Heavy oil
 Crank Shaft, dia. of journals as per Rule 142 mm Crank pin dia. 180 mm Crank Webs Mid. length breadth 285 mm Thickness parallel to axis 102 mm
 as fitted 180 mm Mid. length thickness 102 mm Thickness around eyehole 72.5 mm
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 18 mm
 as fitted N as fitted N
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced.
 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. 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 - 9.25 l/h. for each engine.
 Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 Scavenging Air Blowers, No. 1 off - 42.1 m³/min. Diameter for each engine Stroke Polary Driven by the engine.
 State No. of Report Certificate 850.

AIR RECEIVERS:—Have they been made under Survey Yes
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
 Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces ✓
 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 by Rules ✓
 EMERGENCY Starting Air Receivers, No. 1 off Total cubic capacity 250 litres Internal diameter 380 mm thickness 14.0 mm
 Seamless, lap welded or riveted longitudinal joint seamless Material P.M. Steel Range of tensile strength 35.5 kg/mm² Working pressure by Rules 43 kg/cm²

ELECTRIC GENERATORS:—Type dry proof, ventilated.
 Pressure of supply 220 volts. Full Load Current 1090 Amperes. Direct or Alternating Current direct.
 If alternating 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
 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
 PLANS. Are approved plans forwarded herewith for Shafting Yes Receivers 42-35 Separate Tanks ✓

SPARE GEAR 2 cylinders complete, 4 sets of valves complete, 2 pistons complete with rings, 2 gudgeon pins, 24 piston rings, 1 connecting rod, 2 sets of bottom end & top end brasses, 7 sets of main bearing brasses and 4 slides, 1 fuel oil pump complete, 1 lubricating oil pump

The foregoing is a correct description,

AKTIESELSKABET
 BURMEISTER & WAIN'S MASKIN- OG SKIBSBYGERI

A. Haunold

Manufacturer.



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 Foundation

004042-004048-0150

Dates of Survey while building { During progress of work in shops - - 15/3-18/3-7/10-12/10-18/10-2/11-3/11-10/11-22/11-29/11-1/12-6/12-7/12-9/12/1938-3/1-8/2-20/3-24/3-29/3-24/4-10/5-26/6 1939.
During erection on board vessel - - - 13/6-23/6-28/6-12/7-5/8-15/8-2/8-28/8-1/9-5/9-6/9-12/9-15/9 39.
Total No. of visits 35.

Dates of Examination of principal parts—Cylinders *with* Covers 3/1-8/2-29/3-10/5 Pistons 29/5-10/5 Piston rods ✓

Connecting rods 15/3-18/3-3/11-10/11 1938. Crank and Flywheel shafts 2/11-22/11-29/11-7/12-38-3/11-39. Intermediate shafts 1 off Hoopai no 4484 K.L 29.11.38.

Crank and Flywheel shafts, Material *S. M. Steel* Identification Marks 2 - - - 4585-87 CV. 31.1.39.

~~Connect. rods~~ ~~Intermediate shafts~~, Material *S. M. Steel* Identification Marks { 2 off Hoopai no 4425. CV. 3.11.38.
10 " - - - 4426 CV. 3.11.38.
6 " - - - 4451 CV. 10.11.38.

Identification marks on Air Receivers No 850. Hoopai Test 50 Atm.
W.P. 25 Atm. ✓
C.V. 24.4.39.

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 generator sets herein described are of the manufacturer's standard type and have been constructed and fitted under special survey in accordance with the Society's Rules and the approved plan. The workmanship is of good description. The generator sets have been tested under working condition and found to work satisfactorily.*

The amount of Fee ... £ : : When applied for, 3.10.1939.
Travelling Expenses (if any) *Mr. 60.00* : : When received, 13.10.1939. *W.B.H.*

Christiana A. H. Keshary
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned

TUE 17 OCT 1939
See Cpn 28 11015