

COMPRESSOR

Rpt. 4c.

REPORT ON OIL ENGINE ~~ELECTRIC~~ GENERATOR SETS.

No. 20471

Received at London Office

MAR - 8 1938

Date of writing Report 5th March 1938 When handed in at Local Office 7. 5. 38 Port of Grimsby
 No. in Survey held at 30/5-38 Lincoln Date, First Survey 30. 11. 1936 Last Survey 2. 3. 1938
 Reg. Book. 39584 on the Single Screw vessel 'OTINA' Number of Visits 7 Tons 2875.38
 Built at Odense By whom built Odense Maskinbyggeri Yard No. 73 When built 1938
 Owners The Nyegaard Petroleum Co. Ltd. Port belonging to London
 Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd. ENGINE Contract No. 182785 When made 1938
 COMPRESSOR Generators made at Schiedam By whom made FABRIEK Contract No. 120 When made 1938
 No. of Sets 1 Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators 120 cb. ft./min. Kilowatts.

OIL ENGINES, &c.—Type of Engines 3 VCRZ Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 400 lbs. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9 1/8" Is there a bearing between each crank Yes
 Revolutions per minute 450 Flywheel dia. 3'-4" Weight 19 lbs. Means of ignition Compression Kind of fuel used Heavy oil
 Crank Shaft, dia. of journals as per Rule Approved Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis shrunk
 as fitted 6" Mid. length thickness 2 1/2" Thickness around eye-hole shrunk
 Flywheel Shaft, diameter as per Rule Approved Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 3/4"
 as fitted 6" as fitted shrunk
 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 Water cooled
 Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size One, geared.

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 11. 11. 33
 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 Yes
 Is there a drain arrangement fitted at the lowest part of each receiver Yes
 High Pressure Air Receivers, No. Yes Cubic capacity of each Yes Internal diameter Yes thickness Yes
 Seamless, lap welded or riveted longitudinal joint Yes Material Yes Range of tensile strength Yes Working pressure by Rules Yes
 Starting Air Receivers, No. Yes Total cubic capacity Yes Internal diameter Yes thickness Yes
 Seamless, lap welded or riveted longitudinal joint Yes Material Yes Range of tensile strength Yes Working pressure by Rules Yes

ELECTRIC GENERATORS:—Type Yes
 Pressure of supply Yes volts. Full Load Current Yes Amperes. Direct or Alternating Current Yes
 If alternating current system, state the periodicity Yes 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 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 Yes

PLANS. Are approved plans forwarded herewith for Shafting 11. 11. 33 Receivers Yes Separate Tanks Yes
 (If not, state date of approval)

SPARE GEAR
As per Rule requirements.

The foregoing is a correct description,
 Ruston & Hornsby, Limited
 J. Lloyd
 Manufacturer.



4420-19113

Dates of Survey while building
 During progress of work in shops - 1936 Nov 30 Dec 4 1937 Jan 18 Mar 9 Dec 14.30 1938 Jan 10 Feb 21.24 Mar 3
 During erection on board vessel - 74.20/4.2874.11/5.21/5.24/5.28/5.38.
 Total No. of visits 10

Dates of Examination of principal parts—Cylinders 24-2-38 Covers 24-2-38 Pistons 24-2-38 Piston rods ✓
 Connecting rods 14-12-37 Crank and Flywheel shafts 30-12-37 Intermediate shafts ✓
 Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3341-30-12-37 AS.
 Intermediate shafts, Material ✓ Identification Marks Housing 3251 F. 30-12-37 AS.
 Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *See Gun Rpt 20299 (Nederlandsche Stoomschepen)*

General Remarks (State quality of workmanship, opinions as to class, &c.)

This engine has been built under special survey in accordance with the Rules and approved plans.

The workmanship and materials are good.

Running tests have been carried out at the Maker's works with satisfactory results.

This engine is being shipped to Odense to the order of Messrs Odense, Staalskibsværft, (Ved. A. P. Møller.) Odense, Denmark.

This compressor set has been fitted and connected complete on board the vessel, and on completion it was tested under working condition and found satisfactory.

Sturbojn
 SURVEYOR TO LLOYD'S REGISTER OF SHIPPING

Request form attached to Gun Rpt 20262
 of 5/11/19 10/11/19.6985.
 30/11/19.1144

The amount of Fee ... £ *Job charges in amount*
 Travelling Expenses (if any) £

W. H. D. P. Bell, L. L. H. Bell
 Surveyor to Lloyd's Register of Shipping.

FRI. 24 JUN 1938

Committee's Minute

Assigned

See Gun T.C. 10589



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1m.537.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minute.)