

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

No. 20471

COMPRESSOR

Received at London Office

JAN - 8 1938

Date of writing Report 5<sup>th</sup> March 1938 When handed in at Local Office 7. 5. 38

No. in Survey held at Reg. Book.

Port of 38

Date, First Survey 30. 11. 1936

Last Survey 3. 3. 1938

Number of Visits

39584 on the Single Twin Triple Quadruple Screw vessel

'OTINA'

574 38

+ 7

Tons { Gross 6216.62 Net 3603.90

Built at Odense

By whom built Odense Haskelbørg

Yard No. 73

When built 1938

Owners The Nybo Tømrer Petroleum Co. Ltd.

Port belonging to London

Oil Engines made at Lincoln

By whom made Ruston &amp; Hornsby, Ltd.

ENGINE

Contract No. 182785 When made 1938

COMPRESSOR Generators made at Schiedam

By whom made FABRIEK

Contract No.

When made

No. of Sets 1

Engine Brake Horse Power 60

Nom. Horse Power as per Rule 18.6

Total Capacity of Generators 120 kwatts.

OIL ENGINES, &amp;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 as fitted 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis shrunk Mid. length thickness 2 1/2" Thickness around eye hole

Flywheel Shaft, diameter as per Rule Approved as fitted 6" Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 3/4"

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

Lubricating Oil Pumps, No. and size One, geared.

Air Compressors, No. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey

State No. of Report or Certificate

Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver

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

Starting Air Receivers, No. Total cubic capacity Internal diameter thickness

Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type

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

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

Generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

shunt field Are all terminals accessible, clearly marked, and furnished with sockets

Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched 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 and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting 11. 11. 33

Receivers

Separate Tanks

SPARE GEAR

As per Rule requirements.

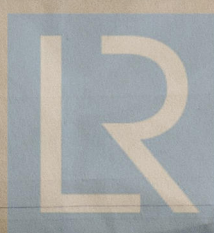
The foregoing is a correct description,

Ruston &amp; Hornsby, Limited

J. P. Lloyd

Manufacturer.

Oil &amp; Gas Engine Dept.



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4420 - 19113



Dates of Survey while building  
During progress of work in shops - - 1936 Nov 30 Dec 14 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 Stoomvaart Maatschappij)

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, Skælskibsværft, (Ved. A. P. Møller.) Odense, Denmark.

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

Sturtevant

SURVEYOR TO LLOYD'S  
REGISTER OF SHIPPING

Request form attached  
to Gun Rpt 20262

7/5/19 10/10.6985.  
30/10.1144

The amount of Fee ...

Travelling Expenses (if any) £

When applied for,

19.....

When received,

19.....

Charles E. H. L. Pritchard, B.Sc., L.D.S. (Mech.)  
Surveyor to Lloyd's Register of Shipping.

FRI. 24 JUN 1938

Committee's Minute

Assigned

See Gun T.C. 10589



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