

Amsterdam report 15738

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 20811

Received at London Office

Date of writing Report 21 Dec 1938 When handed in at Local Office 21 Dec 1938 Port of Grimsby
No. in Survey held at Lincoln & Amsterdam Date, First Survey 13.4.38 Last Survey 1.12.1938
Reg. Book. Number of Visits 7+5.

Single
Twin
Triple
Quadruple

Screw vessel

M. V. "TIBIA"

Tons { Gross 10356
Net 6146.81

Built at Amsterdam By whom built Red Scheepsbouw, Maatschappij Card No. 272 When built 1939

Owners N.V. Petroleum M^t "La Carona" Port belonging to 's Gravenhage

meter of Oil Engines made at Lincoln By whom made Ruston & Hornsby, Ltd ENGINE Contract No. 190483 When made 1938

Generators made at ✓ By whom made ✓ Contract No. ✓ When made ✓

No. of Sets One Engine Brake Horse Power 60 Nom. Horse Power as per Rule 18.6 Total Capacity of Generators ✓ 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 700 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 Cwts 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 ✓

as fitted 6" Mid. length thickness 2 1/2" Thickness around eyehole ✓

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

as fitted 6" as fitted ✓

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. one No. of stages 2 ✓ Diameters 206-104mm Stroke 160mm Driven by Motor ✓

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 11-11-32 Receivers ✓ Separate Tanks ✓

(If not, state date of approval)

SPARE GEAR

As per Rule requirements.

Ruston & Hornsby Limited,
The foregoing is a correct description,

R. L. L. L.

Oil & Gas Engine Dept.

Manufacturer.



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Lloyd's Register
Foundation

005377-005386-0015

Dates of Survey while building { During progress of work in shops - - 1938 Apr 13-29 May 19 Jun 2 Nov 10-12 Dec 1
During erection on board vessel - - - May 9-24 June 23 July 12-25
Total No. of visits 7 + 5 = 12

Dates of Examination of principal parts—Cylinders 1-12-38 Covers 1-12-38 Pistons 1-12-38 Piston rods ✓
Connecting rods 2-6-38 Crank and Flywheel shafts 10-11-38 Intermediate shafts ✓
Crank and Flywheel shafts, Material Steel Identification Marks LLOYD'S 3345- 10-11-38 AS.
Intermediate shafts, Material Housing Identification Marks LLOYD'S 3424- 10-11-38 AS.
Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel Ems. Apt. No. 20765.

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 Makers works with satisfactory results.
The engine has been despatched to Messrs. Ned. Scheepbouw, Maatschappij, Amsterdam.

075274/T/C/13/11054-38/13/10.
Request form attached to Ems. Rpt. No. 20748.

The amount of Fee ... £ 5 — When applied for, 28.12.1938
Travelling Expenses (if any) £ : When received, 9.3.1939

As per London letter dated 9.3.39

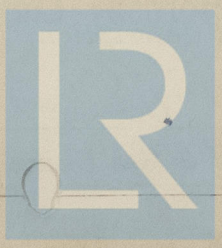
Committee's Minute

Assigned

See P.E. machy rpt.

FRI 11 AUG 1939

Alfred Brundage
Surveyor to Lloyd's Register of Shipping.



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1m.5.37.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)