

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

Received at London Office

Date of writing Report 19... When handed in at Local Office 19... Port of NOTTINGHAM.

No. in Survey held at Lincoln. Date, First Survey... Last Survey... 19... Number of Visits...

Reg. Book. 36579 on the Single Screw vessel N.V. LAMPANIA. Tons Gross 6438 Net 3625.

Built at Newcastle-on-Tyne. By whom built Sunderland Forge & Eng. Co. Ltd. Yard No. 690. When built 1947-5.

Owners Anglo-Siam Petroleum Co Ltd. Port belonging to Siam.

Oil Engines made at Lincoln. By whom made Ruston & Hornsby Ltd. Contract No. 460238. When made 1947.

Generators made at Sunderland. By whom made Sunderland Forge & Eng. Co. Ltd. Contract No... When made...

No. of Sets 1. Engine Brake Horse Power 54. M.N. as per Rule 13.5. Total Capacity of Generators 30 Kilowatts.

Is Set intended for essential services No.

OIL ENGINES, &c.—Type of Engines 4VPHZ. Eng. No. 253111. 2 or 4 stroke cycle 4. Single or double acting SA.

Maximum pressure in cylinders 1000 lbs. Diameter of cylinders 5 3/8". Length of stroke 8". No. of cylinders 4. No. of cranks 4.

Mean indicated pressure 109 lbs. Firing order in cylinders 1-3-4-2. Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6.25/32".

Is there a bearing between each crank Yes. Moment of inertia of flywheel 2240 lb.ft. Revolutions per minute 675.

Flywheel dia. 2'-8". Weight 510 lbs. Means of ignition Compression. Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals 4.3/16". Crank pin dia. 3 1/4". Crank Webs Mid. length breadth 5 3/8". Thickness parallel to axis -.

Flywheel Shaft, diameter - Intermediate Shafts, diameter - General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) -.

Are means provided to prevent racing of the engine when declutched 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 -.

Cooling Water Pumps, No. - Is the sea suction provided with an efficient strainer which can be cleared within the vessel -.

Lubricating Oil Pumps, No. and size one - 376 gals. per hour. engine driven.

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 - No. G. 6523.

Pressure of supply 110 volts. Full Load Current 273 Amperes. Direct or Alternating Current D.C.

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 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 -.

Details of driven machinery other than generator Through clutch. One Reavell & Co. Ltd. Air Compressor No. G. 7702.

PLANS.—Are approved plans forwarded herewith for Shafting Standard Approved. Receivers - Separate Tanks -.

Have Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -.

SPARE GEAR ? Spares checked on board

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

Hans 5 IF 47 Manufacturer.  
Oil & Gas Engine Dept.



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Lloyd's Register  
Foundation

104516

Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - }  
Total No. of visits

Dates of Examination of principal parts—Cylinders 24.1.47. Covers 24.1.47. Pistons 24.1.47. Piston rods -  
Connecting rods 24.1.47. Crank and Flywheel shafts 16.9.46. 24.1.47. Intermediate shafts -

Crank shaft { Material S.M. Steel. Tensile strength  
Elongation Identification Marks LL.3677C. T.D.S.

Flywheel shaft, Material - Identification Marks

Identification marks on Air Receivers  
Oil Fuel Tank, 60 gallon. Tested 10 lbs. 23.5.47. T.D.S.

Is this machinery duplicate of a previous case Yes If so, state name of vessel Standard Type.

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

This engine has been built under Special Survey, in accordance with approved Plans and Regulations of Society, material and workmanship being good.

On completion the set was tried in the Shops under working conditions and found satisfactory. Sunderland Surveyors requested to forward Maker's Test Certificate for generator to Newcastle Surveyors.

The set has been forwarded to Newcastle for installation on board the Vessel.

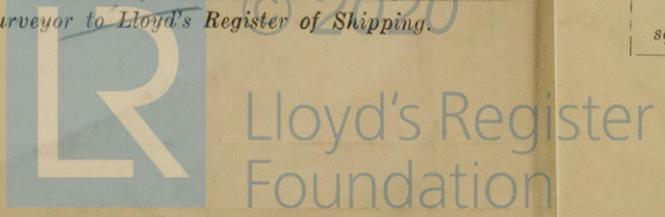
Generator set satisfactorily installed on board, tested under working conditions found satisfactory  
J. R. Orde. Newcastle-on-Tyne.

ENCLOSURE

111,846-1. (MADE AND PRINTED IN ENGLAND)  
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 4 : 0 : 0 When applied for 13.6. 1947.  
Travelling Expenses (if any) £ : : When received 19

W. Dent  
Surveyor to Lloyd's Register of Shipping



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