

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 17919.

Date of writing Report 1st Dec. 1950. When handed in at Local Office 19th Dec. 1950. Port of Gothenburg. Received at London Office 27 DEC 1950

No. in Survey held at Gothenburg Date, First Survey 11th September Last Survey 29th November 1950. Reg. Book. 95395 on the ^{Single} ~~Deck~~ ~~Deck~~ Screw vessel "S L I E D R E C H T" Number of Visits 17

Built at Gothenburg By whom built A-B. Lindholmens Varv Yard No. 1013 When built 1950 Owners Phs. van Ommeren N.V. Port belonging to Rotterdam

Oil Engines made at Hedemora By whom made A-B. Hedemora Verkstäder Engine No. 40.41.42 When made 1950 Generators made at Odense By whom made Thomas B. Thrige A/S Generator No. 300555-6-7 When made 1950

No. of Sets 3 Engine Brake Horse Power 3 x 210 M.N. as per Rule 3 x 52 Total Capacity of Generators 420 Kilowatts. Is Set intended for essential services Yes

OIL ENGINES, &c.—Type of Engines A-B. Götaverken's D.M. 240/360 H 5 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders --- Diameter of cylinders --- Length of stroke --- No. of cylinders 5 No. of cranks 5

Mean indicated pressure --- Firing order in cylinders --- Span of bearings, adjacent to the Crank, measured from inner edge to inner edge ---

Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) --- Revolutions per minute 450

Flywheel dia --- Weight --- Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule --- Crank pin dia. --- Crank Webs Mid. length breadth --- Thickness parallel to axis --- as fitted --- Mid. length thickness --- shrunk Thickness round eyehole ---

Flywheel Shaft, diameter as per Rule --- Intermediate Shafts, diameter as per Rule --- General armature, moment of inertia (16 m² or Kg.-cm.²) --- as fitted ---

Are means provided to prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted None

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. 1 salt water- and 1 fresh water Is the sea suction provided with an efficient strainer which can be cleared within the vessel. Yes

Lubricating Oil Pumps, No. and size 1 on each engine

Air Compressors, No. None No. of stages --- Diameters --- Stroke --- Driven by ---

Scavenging Air Pumps, No. None Diameter --- Stroke --- Driven by ---

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 760

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 Steam and Soda

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

High Pressure Air Receivers, No. None 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. 1 Total cubic capacity 200 litres Internal diameter 400 mm. thickness 15 mm.

Seamless, lap welded or riveted longitudinal joint El.welded Material S.M. Steel Range of tensile strength 41-47 kg/mm² Working pressure by Rules 5.8 kg/cm².

ELECTRIC GENERATORS:—Type Drip proof compound

Pressure of supply 230 volts. Full Load Current 3 x 610 Amperes. Direct or Alternating Current Direct current

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 Yes

Details of driven machinery other than generator Generators only

PLANS.—Are approved plans forwarded herewith for Shafting No. 8.7.1949 Receivers 9.7.1949 Separate Tanks ---

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

SPARE GEAR As per Rule supplied. ✓

In addition 1 complete cylinder and 1 piston with connecting rod, a number of piston rings, a number of atomizers for the fuel valves, and 2 suction valves.

The foregoing is a correct description, AKTIEBOLAGET LINDHOLMENS VARV

Manufacturer. *H. Johansson*



Dates of Survey while building { During progress of work in shops - -)
 { During erection on board vessel - -) 11th September - 29th November, 1950.
 Total No. of visits 17

Dates of Examination of principal parts—Cylinders. --- Covers. --- Pistons. --- Piston rods. ---

Connecting rods. --- Crank and Flywheel shafts. --- Intermediate shafts. ---

Crank shaft { Material. --- Tensile strength. ---
 { Elongation. --- Identification Marks. ---

Flywheel shaft, Material. --- Identification Marks. ---

Identification marks on Air Receivers. No. 760
LLOYD'S TEST 80 KG.
WP 40 KG.
SA 17.8.50

Is this machinery duplicate of a previous case. No. If so, state name of vessel. ---

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

These auxiliary engines have been fitted on board under my inspection and to my satisfaction and have been tested under full working power and found to work satisfactorily.

See also photostat copy of the Stockholm report No.7814 attached.

The auxiliary steam engine as per Nottingham surveyors' certificate No.C.11271 attached.

(The Surveyors are requested not to write on or below the space for Committee Minute.)
 (MADE AND PRINTED IN ENGLAND)
 001.1.48-7.

The amount of Fee ... £ --- : --- : --- { When applied for. --- 19 ---
 Travelling Expenses (if any) £ --- : --- : --- { When received. --- 19 ---

FRI. 26 JAN 1951

Committee's Minute

Assigned *See F.E. Welch. 4/8/51.*

Steu Johnson
 Surveyor to Lloyd's Register of Shipping.



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