

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18730.

Received at London Office

12 JAN 1952

Initial Report 3.1. 1952. When handed in at Local Office 14.1. 1952. Port of Gothenburg
Survey held at Gothenburg Date, First Survey 10.10.1951 Last Survey 20.12. 1951.
Number of Visits 31.

on the ~~Twin~~ ^{Single} Screw vessel Motor Tanker "S H E T L A N D"
Gothenburg By whom built AB Lindholmens Varv Yard No. 1017 When built 1951.
A/S Det Dansk-Transke Dampskibsselskab Port belonging to Copenhagen

es made at Hedemora By whom made AB Hedemora Verkstäder Engine Nos 53-54-55 When made 1951.
es made at Odense By whom made Thomas B. Thrige AS. Generator No 3003544/45 When made 1951.
3 B.H.P. of each Set 3 x 210 M.N. as per Rule 3 x 53 Capacity of each Generator 140 Kilowatts.
ended for essential services yes.

GINES, &c.—Type of Engines Götaverken D.M. 240/360 H5 2 or 4 stroke cycle 4 Single or double acting S.
pressure in cylinders — Diameter of cylinders — Length of stroke — No. of cylinders 5 No. of cranks 5
Span of bearings (i.e., distance between inner edges of bearings in way of a crank) —
bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) — Revolutions per minute 450
Weight — Means of ignition compr. Kind of fuel used diesel oil

Man shaft, { Solid forged dia. of journals as per Rule — Crank pin dia. — Crank Webs Mid. length breadth — Thickness parallel to axis —
Semi-built as fitted — Mid. length thickness — Thickness round eyehole —
All-built as fitted —

Shaft, diameter 24/2 as per Rule — Generator armature, moment of inertia (16 m² or Kg.-cm.²) —

s provided to prevent racing of the engine yes Means of lubrication forced Kind of damper if fitted none

linders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged

Water Pumps, No. and how driven 1 el. driven SW and 1 ditto FW 3500 1/min. Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

ing Oil Pumps, No. ~~none~~ One on each engine

ressors, No. none No. of stages — Diameters — Stroke — Driven by —

g Air Pumps or Blowers, No. none How driven —

CEIVERS: ~~none~~ Has it been made under Survey yes State No. of ~~Report~~ Certificate Stockholm 7339.

than main engines) safety valves on the receiver and the pipe line

details of safety devices

ternal surfaces of the receivers be examined and cleaned yes

rain arrangement fitted at the lowest part of ~~the~~ receiver yes

sure Air Receivers, No. none Cubic capacity of each — Internal diameter — thickness —

lap welded or riveted longitudinal joint — Material — Range of tensile strength — Working pressure —

ir Receivers, No. One Total cubic capacity 200 litres Internal diameter 400 m/m. thickness 15 m/m.

lap welded or riveted longitudinal joint E W Material SM-Steel Range of tensile strength 41/47 kg/cm². Working pressure 30 kg/cm².

RIC GENERATORS:—Type Drip proof compound

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

ing current system, state the periodicity — Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

yes Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field yes

minals accessible, clearly marked, and furnished with sockets yes Are they so spaced

that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

generators are under 100 kw. full load rating, have the makers supplied certificates of test — and do the results comply with the requirements —

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

driven machinery other than generator Generators only

Are approved plans forwarded herewith for Shafting — Receivers — Separate Tank 19.10.50.

onal Vibration characteristics if applicable been approved — Armature shaft Drawing No. —

are gear required by the Rules been supplied yes

The foregoing is a correct description,

AKTIEBOLAGET LINDHOLMENS VARV

Maskinmontör

Manufacturer.



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Lloyd's Register

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Dates of Survey while building { During progress of work in shops - - } 10.10. - 20.12.1951.
{ During erection on board vessel - - }
Total No. of visits 31

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. 763
Lloyds Test 80kg
WP 40 kg
SA 17.8.51.

Is this machinery duplicate of a previous case yes If so, state name of vessel { M.s. "SLIEDRECHT" L.V. Yard No. 1013
M.s. "NERMA DAN" L.V. Yard No. 1015
M.s. "CHRISTIANSBORG" L.V. Yard No. 1016

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These auxiliary engines have been on board under our inspection and to our satisfaction and have been tested under full working and found to work satisfactorily. Please see also Stockholm Certificate attached.
The auxiliary steam engine as per Nottingham Surveyors Certificate No. 13207 attached.
The heavy oil engine for harbour light generator as per Gothenburg Surveyors Certificate No. 13788 attached.

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

Committee's Minute

Assigned

TUES. 19 FEB '52

See F.E. Welch. rpt.

Stein Johnson
Surveyor to Lloyd's Register of Ships



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