

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 17082

Received at London Office

28 NOV 1949

Date of writing Report 15th Nov. 1949. When handed in at Local Office 24th Nov. 1949. Port of Gothenburg.

No. in Survey held at Gothenburg Date, First Survey 1st September Last Survey 3rd November 1949. Number of Visits 11

35473 on the ^{Single} ~~Yacht~~ ~~Yacht~~ Screw vessel "ANGLO MAERSK" Tons } Gross 11647. Net 6825.

Built at Gothenburg By whom built Erikabergs Mek. Verkstads A-B. Yard No. 388. When built 1949

Owners A/S D/S Svendborg & D/S af 1912 A/S Port belonging to Copenhagen

Oil Engines made at Kalundborg By whom made A/S Motorfariken Bukh Engine Contract No. 5662-3 When made 1949

Generators made at Copenhagen By whom made A/S Titan Generator Contract No. 168476-7 When made 1949

No. of Sets 2 Engine Brake Horse Power 210 M.N. as per Rule 52.5 Total Capacity of Generators 280 Kilowatts.

Is Set intended for essential services Yes

OIL ENGINES, &c.—Type of Engines Heavy oil engines, solid injection 2 or 4 stroke cycle 4 Single or double acting Single

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

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 Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute

Flywheel dia Weight Means of ignition Kind of fuel used

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

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

Are means provided to prevent racing of the engine when declutched Means of lubrication Kind of damper if fitted

Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with non-conducting material connected to the main cooling system

Cooling Water Pumps, No. 2 x 240 lit./min., also Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size

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 Yes, by the Norske Veritas State No. of Report or Certificate

Is each receiver, which can be isolated, fitted with a safety valve as per Rule Main - Yes, Auxiliary - Fusible plug and Safety valve on compr.

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Steam & Caustic 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 250 litres Internal diameter 405 mm. thickness 15 mm.

Seamless, lap welded or riveted longitudinal joint El. welded Material S.M. Steel Range of tensile strength 47.6 kg/cm² Working pressure by Rules 58 kg/cm²

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 as per Rule when full 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

Details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting Receivers London 15.12.48 Separate Tanks

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

SPARE GEAR As per Rule supplied. Also a spare generator armature supplied.

The foregoing is a correct description,

Manufacturer.



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003018-003022-0013

Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - } 1st September - 3rd November, 1949.
 Total No. of visits 11

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. N.V.No. 2 Avesta No. 173953
 TRP 80 kg/cm²
 WP 40 kg/mm²
 30.8.46

Is this machinery duplicate of a previous case. --- 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 Copenhagen First Entry Report No. 12789.

Note:

The starting air receiver has been made and tested under the supervision of the Norske Veritas and accepted to be fitted in this vessel as per the Secretary's letter dated the 16th December, 1948, initialled "E". The receiver has been examined and hydraulically tested in my presence and found as far as could be seen tight and sound.

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

TUES. 20 DEC 1949

Anders Sjögren
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute.....

Assigned For use see J.E. Rpt.

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

Rpt. 13.
 Date of writ
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