

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 391

Report 17th April, 1952 When handed in at Local Office 19 Port of Bremen Received at London Office 14 JUN 1952

Survey held at Bremen Date, First Survey 29th July, 1951 Last Survey 9th April, 1952 Number of Visits 23

on the M.V. "BONITA" Screw vessel. Gross 11083 Tons Net 10011 Tons

By whom built Bremer Vulkan Yard No. 816 When built 4.52

Port belonging to Göteborg

By whom made Bremer Vulkan Contract No. - When made 4.52

By whom made Lloyd Dynamo Werke Contract No. - When made 4.52

Engine Brake Horse Power 225 M.N. as per Rule 56 each Total Capacity of Generators 3 x 150 Kilowatts.

ed for essential services yes

INES, &c.—Type of Engines MAN G 7 V 22/33 Diesel 2 or 4 stroke cycle 4 SC Single or double acting SA

Pressure in cylinders 52 kgs/cm² Diameter of cylinders 220 Length of stroke 330 No. of cylinders 7 No. of cranks 7

Order in cylinders 1, 2, 4, 6, 7, 5, 3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 260 mm

Weight 1100 kgs Moment of inertia of flywheel (16 m² or Kg.-cm.²) 1000 kg cm² Revolutions per minute 450

Means of ignition solid injection Kind of fuel used Diesel oil

as per Rule 127 mm dia. of journals 130 mm Crank pin dia. 130 mm Mid. length breadth 240 mm Thickness parallel to axis 61 mm shrunk

as fitted 130 mm Crank Webs Mid. length thickness 61 mm Thickness round eye-hole

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

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

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

er Pumps, No. 2 harbour pumps and main cooling water lines Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Oil Pumps, No. and size one - 25 mm discharge

sors, No. two No. of stages two Diameters 265 & 105 mm Stroke 250 mm Driven by port forward stbd. aux. engs.

Air Pumps, No. - Diameter - Stroke - Driven by -

IVERS:—Have they been made under Survey No. See L.O. letter 4.12.51 State No. of Report or Certificate -

er, which can be isolated, fitted with a safety valve as per Rule yes What means are provided for cleaning their inner surfaces screwed cover

nal surfaces of the receivers be examined yes

in arrangement fitted at the lowest part of each receiver yes

re Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Receivers, No. one Total cubic capacity 320 ltrs. Internal diameter - thickness 17 mm

welded or riveted longitudinal joint seamless Material steel Range of tensile strength - Working pressure by Rules 30 at.

GENERATORS:—Type D.C. compound wound, 150 KW each

upply 230 volts. Full Load Current 652 Amperes. Direct or Alternating Current direct current

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

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

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

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

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

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

ven machinery other than generator air compressors through clutch by port forward and starboard aux. engines

re approved plans forwarded herewith for Shafting No. 10.7.51 Yes (copy) Receivers see L.O. letter 4.12.51

al Vibration characteristics if applicable been approved yes 10.7.51 Armature shaft Drawing No. s.TB 382 E and D/E

EAR as per Rule requirements.

The foregoing is a correct description,

Bremer Vulkan

Manufacturer.



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Dates of Survey while building During progress of work in shops - 11.10., 1.11., 9.11., 16.11., 20.11., 27.11., 3.12., 11.12., 20.12.51. 23.1., 25.1., 15.2., 19.2.52.
During erection on board vessel - 21.2., 4.3., 28.3., 21.3., 2.4., 3.4., 4.4., 8.4..52.
Total No. of visits 23

Dates of Examination of principal parts - Cylinders 11.12., 20.12., 51. Covers 28.3.52 Pistons 12.2.52. Piston rods 3.12.51, 25.1.52
Connecting rods 11.10.51 Crank and Flywheel shafts Intermediate shafts

Crank shaft Material S.M. steel Tensile strength 53.5 to 55.4 kgs/mm²
Elongation 31 to 32% Identification Marks LDS 198 & 197 N.V. 2793

Dynamo shaft, Material S.M. steel Identification Marks CH. 3595 Pr. 73 W.A.A. 5

Identification marks on Air Receivers No. 816. W.P. 30 ATU, T.P. 50 ATU, 14.11.51 WAA (I - 320L, 7.12.44, 205 - 255 AT

Is this machinery duplicate of a previous case Yes If so, state name of vessel "DAGMAR SALEN"

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) These engines have been constructed under

Survey in conformity with the Society's Rules and Regulations, the approved plans and the Secretary's letter

materials and workmanship are good. The engines have been examined during construction, properly installed

above vessel and found satisfactory under working conditions.

flanges

yes

yes

cooling water lines

one - 25 mm discharge

two

two

No. 10.7.51

yes

yes

yes

one

steel

D.C. compound wound, 150 KW each

direct current

yes

yes

yes

yes

yes

air compressors through clutch by port forward and starboard aux. engines

see L.O. letter 4.12.51

yes 10.7.51

see L.O. letter 4.12.51

The amount of Fee ... DM 810.00

Travelling Expenses (if any) £

When applied for 19

When received 19

Committee's Minute TUES. 15 JUL 1952

Assigned See F.E. Misch. rpt.

Surveyor to Lloyd's Register of Shipping
Lloyd's Register Foundation