

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 88

Received at London Office
 Reporting Report 4th Oct. 19 51 When handed in at Local Office 19 Port of Augsburg
 Survey held at Munich Date, First Survey 14.8.51. Last Survey 3.10. 19 51
 Single on the Twin Triple Quadruple Screw vessel
 By whom built Yard No. When built
 Hans Stiel of Hamburg Port belonging to
 Engine No. 90494 When made 1951
 Contract No. When made
 Engine Brake Horse Power 49 M.N. as per Rule Total Capacity of Generators Kilowatts
 ended for essential services

GINES, &c.—Type of Engines 1 x RHS 418 D No. 90494 2 or 4 stroke cycle 4 Single or double acting single
 pressure in cylinders ca. 60 atm Diameter of cylinders 140 mm Length of stroke 180 mm No. of cylinders 3 No. of cranks 3
 firing order in cylinders 1-3-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 136 mm
 bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 85 kg/m² Revolutions per minute 800
 dia. 700 mm Weight 270 kgs. Means of ignition Bosch Kind of fuel used gas oil
 as per Rule
 aft, dia. of journals 115 mm Crank pin dia. 100 mm Crank Webs Mid. length breadth 152 mm Thickness parallel to axis
 as fitted 32 mm shrunk Thickness round eyehole
 as per Rule
 Shaft, diameter Intermediate Shafts, diameter General armature, moment of inertia (16 m² or Kg.-cm.²)

s provided to prevent racing of the engine when declutched yes Means of lubrication forced Kind of damper if fitted
 cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled
 Water Pumps, No. 1 x 48 ltrs. / min Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 ng Oil Pumps, No. and size 1 x 1.4 m³/h

ressors, No. No. of stages Diameters Stroke Driven by
 ng Air Pumps, No. Diameter Stroke Driven by

CEIVERS:—Have they been made under Survey State No. of Report or Certificate
 ceiver, which can be isolated, fitted with a safety valve as per Rule
 nternal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 drain arrangement fitted at the lowest part of each receiver

ssure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Air Receivers, No. Total cubic capacity Internal diameter thickness
 lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

RIC GENERATORS:—Type
 of supply volts. Full Load Current Amperes Direct or Alternating Current
 ting 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 is an adjustable regulating resistance fitted in series with each shunt field
 rminals accessible, clearly marked, and furnished with sockets Are they so spaced
 d that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule
 erators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements
 erators are 100 kw. or over have they been built and tested under survey

driven machinery other than generator
 Crankshaft Plan 26.10-23.1
 Are approved plans forwarded herewith for Shafting approved 3.2.51. Receivers Separate Tanks
 (If not, state date of approval) will be forwarded by Fa. Armature shaft Drawing No.
 sional Vibration characteristics if applicable been approved Still, Hamburg, for the whole aggregate.
 (state date of approval)

GEAR small items only

The foregoing is a correct description.
 SÜDDEUTSCHE BREITEN-A.G.
 Manufacturer.



© 2021

Lloyd's Register
 Foundation

010037 - 010045 - 0068

Dates of Survey while building { During progress of work in shops - -) 14th August, 2nd and 3rd October, 1951.
{ During erection on board vessel - -) .-.-.
Total No. of visits 3
14.8.51.
Dates of Examination of principal parts—Cylinders 2.10.51. Covers 2.10.51. Pistons 2./3.10.51. Piston rods .-.-.
Connecting rods 2./3.10.51. Crank and Flywheel shafts 24.7./3.10.51. Intermediate shafts .-.-.
Crank shaft { Material S.M. Steel Tensile strength 86.1 kgs/mm²
Elongation on 50 mm: 20 % Identification Marks Lloyd's 3130/216958/1
3077 H.K.S. 24.7.51.
Flywheel shaft, Material .-.-. Identification Marks .-.-.
Identification marks on Air Receivers .-.-.

Is this machinery duplicate of a previous case .-.-. If so, state name of vessel Süddeutsche Bremsen A.G. Standard

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

This heavy oil auxiliary engine has been constructed under special survey in accordance with approved plans and the workmanship was found to be satisfactory.

On makers test bed, this heavy oil auxiliary engine has been tested running under full-, and partial loads with satisfactory results.

In my opinion, the vessel for which this heavy oil auxiliary engine is intended, will be for the notation of L. M. C (with date) when the whole machinery has been satisfactorily fitted aboard and tried under full working conditions.

(Please see London letter of the 29th October, 1951)

The amount of Fee ... 83. 20
Last had ... 20. 00
Travelling Expenses (if any) ... 9. 70
113. 90

When applied for 19
When received 19

FRI. 22 AUG 1952

Committee's Minute

Assigned

See F.E. mchly rpt Ham 1884

Surveyor to Lloyd's Register of Ships

Lloyd's Register Foundation