

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 187

Received at London Office
 Date of writing Report 18th Dec. 1952 When handed in at Local Office 19 Port of Augsburg 29 DEC 1952
 No. in Survey held at Minchen Date, First Survey 8th November, Last Survey 4th December 1952
 Reg. Book. on the Single { Screw vessel M.V. "DALKEY COAST" Number of Visits 4
 Triple {
 Quadruple {
 Built at Hamburg By whom built Yard No. When built
 Owners Hans Still, Hamburg Port belonging to
 Oil Engines made at Minchen By whom made Süddeutsche Bremsen A.G. Engine No. 91310/11 When made 1952
 Generators made at By whom made Generator No. When made
 No. of Sets 2 B.H.P. of each Set 80 M.N. as per Rule Capacity of each Generator Kilowatts.
 Is Set intended for essential services

OIL ENGINES, &c Type of Engines RHS 418 V 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 65 atm. Diameter of cylinders 140 mm Length of stroke 180 mm No. of cylinders 4 No. of cranks 4
 Mean indicated pressure 6,9/8,2 atm. Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 136 mm
 Is there a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 23 kgm² Revolutions per minute 950
 Flywheel dia. 590 mm Weight 103 kg Means of ignition pre-chamber Kind of fuel used gas oil
 Crank Shaft, Solid forged dia. of journals as per Rule 115 mm Crank pin dia. 100 mm Crank Webs Mid. length breadth 152 mm Thickness parallel to axis
 Flywheel Shaft, diameter as fitted Generator armature, moment of inertia (16 m² or Kg.-cm.²)
 Are means provided to prevent racing of the engine yes Means of lubrication forced Kind of damper if fitted
 Are the cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled
 Cooling Water Pumps, No. and how driven 4,5 m³/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size 1,5 m³/h

Air Compressors, No. No. of stages Diameters Stroke Driven by
 Scavenging Air Pumps or Blowers, No. How driven

AIR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate
 (other than main engines)
 State full details of safety devices

Can the internal surfaces of the receivers be examined and cleaned
 Is there a drain arrangement fitted at the lowest part of each receiver

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

Starting Air Receivers, No. Total cubic capacity Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

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 appr. 3.2.51 Receivers Separate Tanks

Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.
 (State date of approval and name of previous duplicate case, if any)
 Has the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

SÜDDEUTSCHE BREMSSEN A.G. München 13 Manufacturer.

H. Schönbauer i.b. Ammer



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Lloyd's Register

00013+00013-0057

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Dates of Survey while building { During progress of work in shops - - 1952, Nov., 8, 10, 13; Dec., 4. -
During erection on board vessel - - -
Total No. of visits four

Dates of Examination of principal parts - Cylinders 8.11.52 Covers 10.11.52 Pistons 13.11.52 Piston rods - - -
Connecting rods 13.11.52 Crank and Flywheel shafts 8.11.52 Intermediate shafts - - -

Crank shaft { Material S.M. Steel Tensile strength 3476/1 3476/2 87,1 91,4 kg/mm²
Elongation 17,2 17,6 % on 50 mm Identification Marks 359367/745 359369/746 LLOYDS H.K.S. 8.11.52

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

Identification marks on Air Receivers - - -

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 heavy oil auxiliary engines have been constructed under special survey in accordance with the approved plans, the Secretary's letters and instructions thereto. The material used in the constructions is good and the workmanship was found satisfactory. The engines have been tested running on makers test bed with good results.

In our opinion the vessel for which these engines are intended will be eligible for the notation

+ L.M.C. (with date) when the whole machinery has been satisfactorily fitted aboard the vessel and has been tried under full working conditions.

30451.-T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... *du* : 240.-
Test bed Trials *du* : 60.-
Travelling Expenses (if any) *du* : 50.-

When applied for 19
When received 7th Feb 1953

W. L. Lunn
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUESDAY 22 SEP 1953
Assigned *See Rpt 48*

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