

No. 256

nm. 683580

Received at London Office

JUN -3 1938

Date of writing Report 20.5.38 19 When handed in at Local Office 27.5. 19 Port of Düsseldorf
No. in Survey held at Cologne Date, First Survey 5.11.37 Last Survey 10.12.37 19
Reg. Book. Number of Visits 6

Reg. Book. No. _____
 on the {

 Single
 Twin
 Triple
 Quadruple

 Screw vessel _____ Tons {

 Gross _____
 Net _____

 Built at Hongkong By whom built W.S. Bailey & Co., Yard No. 291 When built _____

Built at Hongkong By whom built W.S. Bailey & Co., Yard No. 291 When built _____

Owners _____ Port belonging to Eng. 469454/56

| | | | | | |
|---------------------|---------|--------------|-----------------------|--------------|-----------|
| Oil Engines made at | Cologne | By whom made | Humboldt-Deutzmotoren | Contract No. | When made |
| Generators made at | | By whom made | | Contract No. | When made |

No. of ~~Engs~~ ^{Engs} Aux. Engine Brake Horse Power 56 ✓ Nom. Horse Power as per Rule 16 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy oil engine A3M 220 ✓ 2 or 4 stroke cycle 4 ✓ Single or double acting single ✓
Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 170 mm ✓ Length of stroke 200 mm ✓ No. of cylinders 3 ✓ No. of cranks 3 ✓
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 191 mm ✓ Is there a bearing between each crank yes ✓
Revolutions per minute 550 ✓ Flywheel dia. 780 mm ✓ Weight 770 kg ✓ Means of ignition sol inject ✓ Kind of fuel used on test bed gas oil ✓

Revolutions per minute..... 1,500

Crank Shaft, dia. of journals..... 120 mm ✓ as per Rule.....
as fitted..... Crank pin dia. 110 mm ✓ Crank Webs

Mid. length breadth..... 160 mm ✓ Thickness parallel to axis.....
Mid. length thickness..... 42,5 mm ✓ Thickness around eyehole.....

Flywheel Shaft, diameter *as per Rule*..... *Intermediate Shafts, diameter* *as per Rule*.....
as fitted..... *as fitted*..... *125 mm/m* ✓ Thickness of cylinder liners *16 mm* ✓

Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced ✓

Are the cylinders fitted with safety valves yes Are the exhaust pipes ~~and silencers~~ XXXXXX water cooled or lagged with non-conducting material water cooled ✓

Cooling Water Pumps, No. none ☒ Is the sea suction provided with an efficient strainer which can be cleared within the vessel ☒

Lubricating Oil Pumps, No. and size 1 tooth wheel pump capacity 24 ltrs/min at 990 r.p.m. ☒

| | | | | |
|--|----------------------------|------------------------|------------------------|------------------------|
| Air Compressors, No. | <i>No. of stages</i> | <i>Diameters</i> | <i>Stroke</i> | <i>Driven by</i> |
| Scavenging Air Pumps, No. | <i>Diameter</i> | <i>Stroke</i> | <i>Driven by</i> | |

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule _____

Can the internal surfaces of the receivers be examined _____ What means are provided for cleaning their inner surfaces _____

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 by Rules.....

Starting Air Receivers, No.Total cubic capacity.....Internal diameter.....thickness.....

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

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 efficient when the whole load is suddenly thrown on and off

Generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with
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 _____

PL 4 MS. Are approved plans forwarded herewith for Shafting 209836 A 6.12.37 Receivers _____ Separate Tanks _____

PLANES. Are approved plans for awarding contracts, *(If not, state date of approval)*

PREPARE GEAR as per Rules

The foregoing is a correct description.

Humboldt-Deutzmotoren

Manufacturer.

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Handwritten: Aktiengesellschaft

009116 - 009121 - 00929

The foregoing is a correct description,

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.

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Lloyd's Register

-6029

009116 - 009121 - 0029

Dates of Survey while building { During progress of work in shops - - } 5.11.- 9.11.- 19.11.- 23.11.- 24.11.-10.12.-
{ During erection on board vessel - - - }
Total No. of visits

Liners: 23.11.- 10.12.-

Dates of Examination of principal parts—Cylinders 23.11.- 10.12.- Covers 19.11.- 10.12.- Pistons 10.12. Piston rods

Connecting rods 9.11.-24.11.-10.12. Crank and Flywheel shaft 5.11.-23.11.-10.12.- Intermediate shaft

Crank and Flywheel shafts, Material ~~XXXXXXXXXX~~ S.M.Steel ✓ Identification Mark LLOYD'S 2826 H.B. 23.11.37.

Intermediate shafts, Material S. M. Steel ✓ Identification Marks Sample No 247 H.B.

Is this machinery duplicate of a previous case yes If so, state name of vessel Messrs. Anglo Saxon Petr. Co. London Düsseldorf Report No. 93. ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)

This auxiliary engine has been constructed under special survey in accordance with the Society's Rules and Regulations as well as with the approved plan and the instructions thereto. The material used in the construction was found to be good and the workmanship satisfactory. This auxiliary engine has been tested on Maker's test bed in the presence of the undersigned under full load during 7 hours and 10% overload during 1 hour and was found working satisfactorily during these trials. After trials all working parts have been opened out for examination and were found in good condition.

The fusion welded bed plate has been manufactured under survey in accordance with the approved plan No. 714680 date of approval 24th December 1937.

Identification marks: 3136 H.B. 9.4.38.

The main engine is also being built by Messrs. Humboldt-Deutzmotoren.

A copy of this report has been sent to Hongkong Office.

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

H. Brüggemann
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI 20 JAN 1939

See H.K. J.E. Rpt 8342



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Foundation