

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

Received at London Office JAN 16 1939

Date of writing Report 9.1.39 ~~xx~~ When handed in at Local Office 16.1. 1939 Port of Düsseldorf

No. in Survey held at Cologne Date, First Survey 24.11.37 Last Survey 6.1. 1939
Reg. Book. Number of Visits 6

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel motor vessel "MILDRED" Tons { Gross
Net

Built at Alblasserdam By whom built My. De Noord Yard No. 577 When built 1939

Owners N. V. Frank husband My Port belonging to Rotterdam Eng. 569072/73

Oil Engines made at Cologne By whom made Messrs. Humb. Deutz A.G. ~~XXXXXX~~ No. When made 1939

Generators made at By whom made Contract No. When made

No. of ~~Sur~~ Aux. Engine Brake Horse Power 25 Nom. Horse Power as per Rule 7.2 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Heavy Oil engine O.M.Z. 117 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 50 kg/cm² Diameter of cylinders 125mm Length of stroke 170mm No. of cylinders two No. of cranks two

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 178mm Is there a bearing between each crank yes

Revolutions per minute 750 Flywheel dia. 600mm Weight 178 kg Means of ignition solid inj. Kind of fuel used on test bed gas oil

Crank Shaft, dia. of journals as per Rule 70mm Crank pin dia. 75mm Crank Webs Mid. length breadth 102mm Thickness parallel to axis
as fitted 70mm Mid. length thickness 45mm Thickness around eye hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners
as fitted

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 ~~water~~ cooled or lagged with non-conducting material no lagged

Cooling Water Pumps, No. one 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 522 lts/h. at 1275 r.p.m.

Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. two Diameter 220mm Stroke 87mm Driven by the engine itself

AIR RECEIVERS:—Have they been made under Survey State No. of Report or Certificate

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 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

PLANS. Are approved plans forwarded herewith for Shafting 620580 A 19.8. 37 Receivers 3436 7.7.33. Separate Tanks
(If not, state date of approval)

SPARE GEAR as per Rules

The foregoing is a correct description,
[Signature]
Klöckner-Humboldt-Deutz AG
Manufacturer.



Dates of Survey while building { During progress of work in shops - - } 24.11.-10.12.37.- 3.11.-9.12.- 15.12.38.-6.1.39.
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders 9.12.-6.1. Covers 9.12.-6.1. Pistons 6.1. Piston rods

Connecting rods 24.11.-10.12.-9.12.-6.1. Crank ~~shafts~~ shafts 3.11.-15.12.-6.1. Intermediate shafts

Crank and Flywheel shafts, Material S.M. Steel Identification Marks Lloyd's 3640 H.B. 15.12.38.

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers No. 843
 LLOYD'S TEST
 70 atm.
 W.P. 35 atm,
 M.B.29.10.38.

Is this machinery duplicate of a previous case yes If so, state name of vessel Levers Pacific Plantations Sidney
 Düsseldorf Report 90

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

The 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. The auxiliary engine has been tested on Makers' 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 main engine has already been built by Messrs. Humboldt-Deutzmotoren A.G.
 A copy of this report was forwarded to Rotterdam.

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

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

Committee's Minute FRI 4 AUG 1939
 Assigned See Rot. J.C. 284 22

Rpt. 4c.
 Comm: 68
 Date of writing
 No. in Su
 Reg. Book.
 Built at
 Owners
 Oil Engine
 Generators
 No. of
 OIL EN
 Maximum pr
 Span of beari
 Revolutions p
 Crank Sha
 Flywheel S
 Is a govern
 Are the cylin
 Cooling W
 Lubricatin
 Air Compr
 Scavenging
 AIR RE
 Is each recei
 Can the inter
 Is there a dr
 High Press
 Seamless, lap
 Starting A
 Seamless, lap
 ELECTR
 Pressure of
 If alternating
 Generator
 shunt field
 Are they so
 If the genera
 If the genera
 PLANS.
 SPARE

1m.537.—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee Minute.)