

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 1888.

Received at London Office 10 MAR 1937

Date of writing Report 14.2.1937 When handed in at Local Office 5.3.1937 Port of Bremen.

No. in Survey held at 1937 Reg. Book. Muzshung Date, First Survey 5th Nov. 1936 Last Survey 13th Febr. 1937 Number of Visits 524

Single on the Twin Triple Quadruple } Screw vessel Tons { Gross Net

Built at Rotterdam - Schiedam By whom built Viltou - Eijndroom Yard No. 660 When built 1936/37

Owners Standaard Oil Co. of California Port belonging to

Oil Engines made at Muzshung By whom made Messrs. M. A. N. Contract No. 500460 When made 1936/37

Generators made at Slidkerveer By whom made Electrotechnische Industrië Contract No. - When made 1936

No. of Sets 2 Engine Brake Horse Power 2x160 Nom. Horse Power as per Rule 2x43.7 Total Capacity of Generators 2x105 Kilowatts.

OIL ENGINES, &c.—Type of Engines 2x 96 V 33 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 49 Diameter of cylinders 220 Length of stroke 330 No. of cylinders 6 each No. of cranks 6 each

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 358 Is there a bearing between each crank yes

Revolutions per minute 350 Flywheel dia. 1500 Weight 1425 Means of ignition dis. ign. Kind of fuel used diesel oil

Crank Shaft, dia. of journals as per Rule 130 as fitted 130 Crank pin dia. 130 Crank Webs Mid. length breadth 240 Mid. length thickness 61 Thickness parallel to axis - Thickness around eyehole -

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

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 water cooled or lagged with non-conducting material water cooled

Cooling Water Pumps, No. 1 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 1.52 m³/h

Air Compressors, No. 1 each engine No. of stages 2 Diameters 280/280-252 Stroke 180 Driven by clutch from aux. engine

Scavenging Air Pumps, No. Diameter Stroke Driven by

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

Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces opening the bottle head.

Is there a drain arrangement fitted at the lowest part of each receiver yes

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. 1 Total cubic capacity 125 L Internal diameter 298 thickness 10

Seamless, lap welded or riveted longitudinal joint Seamless Material S. M. steel Range of tensile strength 45-57 Working pressure by Rules 63.5

ELECTRIC GENERATORS:—Type please see Rpt. 10 Rotterdam - Surveys 11. Dec. 36. (Charles, H. Bourne.)

Pressure of supply volts. Load Amperes. Direct or Alternating Current

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating are they compound wound

are they over compounded 5 per cent. if not compound wound state distance between each generator

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

PLANS. Are approved plans forwarded herewith for Shafting 17.9.36. Receivers 9.1.1935 Separate Tanks -

SPARE GEAR as per Rules.

The foregoing is a correct description,
Maschinenfabrik Augsburg-Nürnberg A.G.

Manufacturer.



© 2021

Lloyd's Register
Foundation

002762-002769-0098

1936 Nov. 5, 6, 9, 10, 11, 16, 17, 19, 20, 23, 24, 25, 26, 27, 28. Dec. 1, 2, 3, 4, 5, 7, 8, 9, 10, 15, 16, 17, 19, 21, 23, 24, 28, 29, 30. 1937 Jan. 4, 5, 6, 7, 8, 13, 16, 19, 20, 21, 22, 23, 25, 27, 28, 29, 30. Feb. 1, 10, 13.

Dates of Survey while building
During progress of work in shops
During erection on board vessel
Total No. of visits

54

Dates of Examination of principal parts—Cylinders 10, 17, 18, 19, 12. 36. Cranks 3. 15. 12. 36. Pistons 4. 20. 12. 36. Piston rods

Connecting rods 4. 20. 12. 36. Crank and Flywheel shaft 9. 12. 36. Intermediate shaft

Crank and Flywheel shaft, Material S. M. Steel Identification Mark RS. 3030 9. 12. 36. 80134. Intermediate shaft, Material RS. 3030 9. 12. 36. 79074. Identification Marks

Is this machinery duplicate of a previous case If so, state name of vessel Standard type of makers aux. diesel engines.

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

These two auxiliary heavy oil engines have been constructed under special survey in accordance with the Rules and Regulations, as well as with the approved plans and instructions thereto. The material used in the construction is good and the workmanship satisfactory.

The aux. engines have been tested running under full load and 10% overload during 12 hours on the test bed of the makers in the presence of the undersigned and were found to work satisfactorily during these trials.

In my opinion the vessel for which these engines are intended will be eligible for the notation of + L.M.C. (with date) when the whole machinery has been fitted satisfactorily on board and tried under full working conditions.

The amount of Fee ... 440.00
2 x test bed trial 126.00
Travelling Expenses (if any) 34.00

When applied for, 3. 3. 1937.

When received, 3. 4. 1937

McMurrer. N. Petersen.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 18 JUN 1937

Assigned

See L. E. M. R. R. R.



© 2021

Lloyd's Register Foundation

Rpt. 13.

Date of writing

No. in Series
Reg. Book.

Built at

Owners

Electric Light

Is the Vessel

System of

Pressure of

Direct or A

If alternating

Has the Auto

Generators,

are they over

Where more t

series with ea

approved

Have certifica

Are all termin

short circuited

Position of

in way of the

woodwork or c

are the general

Earthing, an

in metallic co

a fuse on each

Switchboard

injury and da

horizontally fr

materials

is it of an app

non-hygroscopic

type

omnibus bars

"off" position

switches

each ge

Are turbine dr

fire-resisting m

voltmeters

do these compl