

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS,

No. 15875

27 JUN 1935

Date of writing Report 22/6/35 10 When handed in at Local Office 26/6/35 10 Port of SOUTHAMPTON.

No. in Survey held at YEOVIL Date, First Survey 28th MAY 1935 Last Survey 21st JUNE 1935

Reg. Book.

Number of Visits 2

Single
on the Twin
Triple
Quadruple

Screw vessel

The Tank Barge SEVERN TRAVELLER

Tons { Gross 92
NetBuilt at BRISTOL By whom built MESS^{rs} CHAS. HILL & SONS, LD. Yard No. 232 When built 1935.

Owners Sevens Canal Carrying Co. Ltd. Port belonging to Bristol

Oil Engines made at YEOVIL By whom made MESS^{rs} PETTERS LTD. ENGINE Contract No. 221763 When made 1935

Generators made at STAMFORD By whom made STAMFORD ELECTRICAL LD Contract No. 29600 When made

No. of Sets ONE Engine Brake Horse Power 6 Nom. Horse Power as per Rule 2.8 Total Capacity of Generators 3 Kilowatts.

OIL ENGINES, &c.—Type of Engines HEAVY OIL 2 or 4 stroke cycle 2 Single or double acting SINGLE

Maximum pressure in cylinders 700 $\frac{1}{2}$ lb. Diameter of cylinders 4" Length of stroke 5 $\frac{1}{2}$ " No. of cylinders ONE No. of cranks ONESpan of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 $\frac{1}{2}$ " Is there a bearing between each crank YES.

Revolutions per minute 900 Flywheel dia. 2'-0" Weight 0.075 Ton. Means of ignition COMPRESSOR Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals as per Rule 2" as fitted 2" Crank pin dia. 2" Mid. length breadth 3 $\frac{5}{8}$ " Thickness parallel to axis ✓

Crank Webs

Mid. length thickness 1 $\frac{9}{32}$ " shrunk

Thickness around eyehole ✓

Flywheel Shaft, diameter

as per Rule ✓

Intermediate Shafts, diameter

as per Rule ✓

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 ✓

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material MANIFOLD WATER COOLED

Cooling Water Pumps, No. ONE 1/2 ROTARY

Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Lubricating Oil Pumps, No. and size ✓

Air Compressors, No. ONE No. of stages ONE Diameters 2 $\frac{3}{4}$ " Stroke 3" Driven by 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 ✓

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 R.N.B.

Pressure of supply 110 volts. Load 27 Amperes. Direct or Alternating Current DIRECT ✓

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 YES.

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

are they over compounded 5 per cent. YES, 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 YES.

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES. Are the lubricating arrangements of the generators as per Rule YES.

PLANS. Are approved plans forwarded herewith for Shafting 17/5/35 Receivers ✓ Separate Tanks ✓

(If not, state date of approval)

SPARE GEAR ✓

The foregoing is a correct description,

per pro PETTERS LTD. LTD.

Charles Dule

Drawing Office Manager.

Manufacturer.



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Lloyd's Register

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021 2/2

Dates of Survey while building { During progress of work in shops - - 28/5/35 + 21/6/35.
During erection on board vessel - - - ✓ 15th July 1935.
Total No. of visits TWO

Dates of Examination of principal parts—Cylinders 28/5/35 Covers 28/5/35 Pistons 28/5/35 Piston rods ✓

Connecting rods 28/5/35 Crank and Flywheel shaft 28/5/35 Intermediate shaft ✓

Crank and Flywheel shafts, Material S.M. STEEL

Identification Mark LLOYDS N° 20 J.P.

Intermediate shafts, Material ✓

Identification Marks ✓

Is this machinery duplicate of a previous case YES. If so, state name of vessel MESS^{RS} CHAS. HILLS YARD N° 231.

General Remarks (State quality of workmanship, opinions as to class, &c.) This engine has been constructed in accordance with the Rules and the approved plan. The workmanship and materials are good.

Engine tried under working conditions and found satisfactory.

This engine has now been fitted & secured in board, tried under working conditions found satisfactory.

The amount of Fee ... £ 4 : 4 : When applied for, 26/6/1935 ✓

Travelling Expenses (if any) £ 1 : 18 : When received, 11.9.35 JSD 12/9

Committee's Minute FRI. 30 AUG 1935

Assigned + Lmb. P. 35
Oil Eng. Ch.

J. Anderson, John Gwynne
Surveyor to Lloyd's Register of Shipping.



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Foundation