

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 15875

27 JUN 1935

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

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

Reg. Book. YEovil Number of Visits 2
on the Single Screw vessel the Tank Barge "SEVERN TRAVELLER" Tons Gross 92

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

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

Oil Engines made at YEovil By whom made MESS^{rs} PETERS 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 $\frac{1}{2}$ " Diameter of cylinders 4" Length of stroke 5 $\frac{1}{2}$ " No. of cylinders ONE No. of cranks ONE

Span 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 COMPRESSION Kind of fuel used HEAVY OIL

Crank Shaft, dia. of journals as per Rule 2" as fitted 2" Crank pin dia. 2" Crank Webs Mid. length breadth 3 $\frac{5}{8}$ " Thickness parallel to axis shrunk
Mid. length thickness 1 $\frac{9}{32}$ " Thickness around eyehole shrunk

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

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

Cooling Water Pumps, No. ONE Rotary Is the sea suction provided with an efficient strainer which can be cleared within the vessel shrunk

Lubricating Oil Pumps, No. and size shrunk

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

Scavenging Air Pumps, No. shrunk Diameter shrunk Stroke shrunk Driven by shrunk

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

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

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

High Pressure Air Receivers, No. shrunk Cubic capacity of each shrunk Internal diameter shrunk thickness shrunk

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

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

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

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 shrunk

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 shrunk

is an adjustable regulating resistance fitted in series with each shunt field shrunk 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 shrunk Separate Tanks shrunk
(If not, state date of approval)

SPARE GEAR shrunk

The foregoing is a correct description,

per pro PETERS LTD.

Charles Dole
Drawing Office Manager.

Manufacturer.



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Lloyd's Register

Foundation

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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 LLOYD'S 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.

101431—Transfer. (The Surveyors are requested not to write on or obliterate space for Committee Minute.)

The amount of Fee ... £ 4 : 4 : { When applied for, 26/6/19.35 ✓
 Travelling Expenses (if any) £ 1 : 18 : { When received, 11.9.35 JPD 12/9

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

Committee's Minute FRI. 30 AUG 1935

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

