...47. Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 115556

...ate of writing Report 17-7-1947. When handed in at Local Office 21 JUL 1947 19... Received at London Office 26 SEP 1947

...No. in ...eg. Book. Survey held at Grimsby Date, First Survey ... Last Survey 11-7-1947.

...on the Single / ~~Twin~~ / ~~Triple~~ / ~~Quadruple~~ Screw vessel M.V. "POLST JARNAN" Yd. "M.M.S. 1006" Number of Visits ...

...uilt at Lowestoft. By whom built Richards Ironworks Ltd. Yard No. 1006. When built ...

...wners Hjalti Gunnlaugsson Port belonging to Dalvik.

...il Engines made at ✓ By whom made Lister Bros Ltd. Contract No. ... When made ...

...enerators made at ✓ By whom made ... Contract No. ... When made ...

...o. of Sets 6 on Engine Brake Horse Power 50 Nom. Horse Power as per Rule ... Total Capacity of Generators ... Kilowatts.

...IL ENGINES, &c.—Type of Engines Heavy Oil 2 or 4 stroke cycle 4 ✓ Single or double acting Single

...aximum pressure in cylinders ✓ Diameter of cylinders 4½" Length of stroke 5½" No. of cylinders 6 ✓ No. of cranks 6 ✓

...pan of bearings, adjacent to the Crank, measured from inner edge to inner edge 7" & 12" Is there a bearing between each crank No

...evolutions per minute 1000 ✓ Flywheel dia. ✓ Weight ✓ Means of ignition Compression ✓ Kind of fuel used Diesel ✓

...rank Shaft, dia. of journals as per Rule ✓ as fitted ... Crank pin dia. ✓ Crank Webs Mid. length breadth 4¼" Mid. length thickness 1½" shrunk Thickness parallel to axis ✓ Thickness round eyehole ...

...ywheel Shaft, diameter as per Rule ✓ as fitted ... **Intermediate Shafts,** diameter as per Rule ✓ as fitted ... Thickness of cylinder liners ✓

...a governor or other arrangement fitted to prevent racing of the engine when ~~declutched~~ Yes ✓ Means of lubrication Forced. ✓

...re the cylinders fitted with safety valves Yes ✓ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged ✓

...ooling Water Pumps, No. 6 on ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes. ✓

...ubricating Oil Pumps, No. and size 6 on — Geared. ✓

...r Compressors, No. 6 on ✓ No. of stages Two ✓ Diameters ✓ Stroke ✓ Driven by Engine. ✓

...avenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

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

...each receiver, which can be isolated, fitted with a safety valve as per Rule ✓

...n the internal surfaces of the receivers be examined ✓ What means are provided for cleaning their inner surfaces ✓

...there a drain arrangement fitted at the lowest part of each receiver ✓

...gh Pressure Air Receivers, No. ✓ Cubic capacity of each ... Internal diameter ... thickness ...

...mless, lap welded or riveted longitudinal joint ✓ Material ... Range of tensile strength ... Working pressure by Rules ...

...rting Air Receivers, No. 6 on Total cubic capacity 2 cub. ft. approx. Internal diameter 10" thickness ¼"

...mless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 36 tons (assumed) Working pressure by Rules 450 lbs

...LECTRIC GENERATORS:—Type Enclosed ventilated

...essure of supply ... volts. **Full Load Current** ... Amperes. **Direct or Alternating Current** Direct.

...lternating current system, state the periodicity ✓ Has the **Automatic Governor** been tested and found as per Rule when full load is suddenly thrown ...and off Yes **Generators,** are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes.

...e all terminals accessible, clearly marked, and furnished with sockets Yes, Are they so spaced ...shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes.

...he generators are under 100 kw. full load rating, have the makers supplied certificates of test ✓ and do the results comply with the requirements ✓

...he generators are 100 kw. or over have they been built and tested under survey ✓

...ANS.—Are approved plans forwarded herewith for Shafting ✓ (If not, state date of approval) Receivers ✓ Separate Tanks ✓

...ARE GEAR

The foregoing is a correct description,

...Manufacturer.

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

Dates of Examination of principal parts—*Cylinders* ... *Covers* ... *Pistons* ... *Piston rods* ...

Connecting rods ... *Crank and Flywheel shafts* ... *Intermediate shafts* ...

Crank shaft — *Material* ... *Tensile strength* ... ; *Elongation* ... *Identification Marks* ...

Flywheel shaft, Material ... *Identification Marks* ...

Is this machinery duplicate of a previous case ... *Identification Marks* ...

Identification marks on Air Receivers ...

Is this machinery duplicate of a previous case ... *If so, state name of vessel* ...

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*) ...

For the information of the Committee.

The amount of Fee ... ... £ : : — When applied for ... 19 ... ; When received ... 19 ...

Travelling Expenses (if any) £ : :

Surveyor to Lloyd's Register of Shipping.

Committee's Minute ... 21 NOV 1947

Assigned See F.E. machy. rpt.

1m,11,42.—T. (MADE AND PRINTED IN ENGLAND).

(*The Surveyors are requested not to write on or below the space for Committee Minute.*)