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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16964
18 AUG 1950

Date of writing Report 10th June 1949 When handed in at Local Office 19 Port of Amsterdam.
No. in Survey held at Hoengelo Date, First Survey 16th Aug 47 Last Survey 8th June 1949
Reg. Book. Number of Visits 5
on the Single Triple Quadruple Screw vessel "ALTAIR"
Built at West Hartlepool By whom built Wm Gray Yard No. 1236 When built
Owners Mervet & Goudriaan Port belonging to Rotterdam
Oil Engines made at Hoengelo By whom made Kon: mach. fabri. Gebr. Stork Contract No. 5072 When made 1949
Generators made at By whom made Contract No. When made
No. of Sets 1 Engine Brake Horse Power 00 Nom. Horse Power as per Rule 18 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Stork Ganz 4x150 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 51.69 m² Diameter of cylinders 150 mm Length of stroke 105 mm No. of cylinders 4 No. of cranks 4
M.P. 5.5 kg/cm²
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 370 mm Is there a bearing between each crank Yes
Revolutions per minute 1000 Flywheel dia. 250 mm Weight 200 kg Means of ignition Compression Kind of fuel used Diesel oil
Crank Shaft, dia. of journals as per Rule 90 mm Crank pin dia. 90 mm Crank Webs Mid. length breadth 115 mm Thickness parallel to axis
as fitted 90 mm Mid. length thickness 75 mm Thickness round 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 Are the exhaust pipes and silencers water cooled or lagged with non-conducting material
Cooling Water Pumps, No. One a 4.2 t.p.h. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
Lubricating Oil Pumps, No. and size One a 1.2 t.p.h.

Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. Diameter Stroke Driven by

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 as per Rule when full 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 13/10/47 (Stork Engines) Receivers Separate Tanks
(If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,
Koninklijke Machinefabriek
Gebr. Stork & Co., N.V. Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1947 Aug 6; 1948 Dec 15-17; 1949 June 8
During erection on board vessel - - -
Total No. of visits 5

Dates of Examination of principal parts—Cylinders 22-12-48 Covers 15-12-48 Pistons 15-12-48 Piston rods

Connecting rods 12-12-48 Crank and Flywheel shafts Intermediate shafts

Crank shaft { Material S. M. Steel Tensile strength See copy certificate C 1895
Elongation See copy certificate C 1895 Identification Marks LLOYD'S No 3448 LW 8-1-48

Flywheel shaft, Material Identification Marks

Is this machinery duplicate of a previous case yes Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case yes If so, state name of vessel Type Stork Gans 94 x 150

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Engine has been built under special Survey in accordance with the approved plan and Society's rules. Material tested as required and workmanship found good. Engine tried on Makus test bed under full load condition and found in order. The Engine has been shipped to West Hartlepool.

Copy of Cert C 1895 (Sheffield) enclosed

The amount of Fee ... £ 7120.00

When applied for 17-6 1949

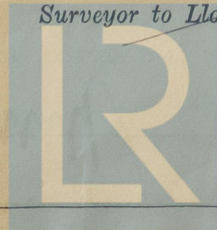
Travelling Expenses (if any) £ 712.00

When received 19

Committee's Minute FRI. 1 SEP 1950

Assigned See P.E. mch. rpt.

Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation