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REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16964

19 AUG 1950

Date of writing Report *10th June 1949* When handed in at Local Office 19... Port of *Amsterdam.*

No. in Reg. Book. Survey held at *Hoengelo* Date, First Survey *6th Aug 47* Last Survey *8th of June 1949* Number of Visits *5*

on the *Single* Screw vessel **"ALTAIR"** Tons {Gross... Net...}

Built at *West Hartlepool* By whom built *Wm Gray* Yard No. *1236* When built

Owners *Mievel & 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 Gantz 4x150* 2 or 4 stroke cycle *4* Single or double acting *Single*

Maximum pressure in cylinders *52.69 m²* Diameter of cylinders *150 mm* Length of stroke *105 mm* No. of cylinders *4* No. of cranks *4*

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 *90 mm* Crank pin dia. *90 mm* Crank Webs Mid. length breadth *115 mm* Thickness parallel to axis

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

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 *23/10/47 (Stork Engines)* Receivers Separate Tanks

SPARE GEAR

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



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49.*

Dates of Survey while building { During progress of work in shops - - 1947 Aug 6; 1948 Dec 15-22-27; 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 22-12-48 Crank and Flywheel shafts ✓ Intermediate shafts ✓

Crank shaft { Material S. M. Steel Tensile strength See copy certificate C 2095
 { Elongation See copy certificate C 2095 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 Gun 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 2095 (Sheffield) enclosed

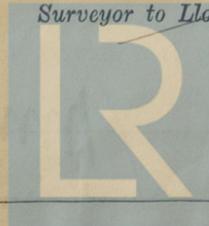
The amount of Fee ... £ 7120.00 When applied for 27-6 1949
 Travelling Expenses (if any) £ 712.00 When received 19

Mr. Harvey

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 1 SEP 1950

Assigned See P. E. Welch. rpt.



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