

26, 19
14, 19,

REC'D NEW YORK SEP 14 1949

Sheet 1
No. 1365

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office

116 SEP 1950

Writing Report July 26 1949 When handed in at Local Office Aug. 22, 1949 Port of Cleveland, Ohio

Survey held at Beloit, Wisconsin Date, First Survey Feb. 25 Last Survey July 26, 19 49

Book. M.S. "BAHIA THETIS" Number of Visits 14
Screw vessel Auxiliary Diesel Generators for Argentine Navy Vessel
Single }
on the Twin }
Triple }
Quadruple }

at Halifax, N.S. By whom built Halifax Shipyards Yard No. 18 When built 1949
Argentine Navy Port belonging to --

Engines made at Beloit, Wisconsin By whom made Fairbanks Morse & Co. Contract No. 429-T When made 1949

Generators made at Beloit, Wisconsin By whom made Fairbanks Morse & Co. Contract No. 429-T When made 1949
of Sets 2 Engine Brake Horse Power 280 Nom. Horse Power as per Rule -- Total Capacity of Generators 384 Kilowatts.

ENGINE, &c.—Type of Engines Trunk piston, solid injection, positive scavange 2 or 4 stroke cycle 2 Single or double acting S
Maximum pressure in cylinders 1150 psi. Diameter of cylinders 6.25" Length of stroke 9" No. of cylinders 8 No. of cranks 9
of bearings, adjacent to the Crank, measured from inner edge to inner edge 8" Is there a bearing between each crank Yes

Revolutions per minute 720 Flywheel dia. 27" Weight 1000 lbs Means of ignition Compression Kind of fuel used Diesel
Crank Shaft, dia. of journals as per Rule -- as fitted 5.497" Crank pin dia. 5.497" Crank Webs Mid. length breadth 8" Thickness parallel to axis --
Mid. length thickness 1-7/8" Thickness around eyehole --

Wheel Shaft, diameter as per Rule -- as fitted -- Intermediate Shafts, diameter as per Rule -- as fitted -- Thickness of cylinder liners .375" min.

governor or other arrangement fitted to prevent racing of the engine ~~was~~ Yes Means of lubrication Pressure
the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material --

oling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel. --
lubricating Oil Pumps, No. and size One attached 63 g.p.m. One hand pump

r Compressors, No. -- No. of stages -- Diameters -- Stroke -- Driven by --
avinging Air Pumps, No. One Oscillating vane type Diameter Vane 17" x 21" Stroke 7.5" Driven by Crankshaft

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 --

in 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. --

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 2 wire, compound wound, drip proof, ventilated, single bearing
Pressure of supply 225 volts. Full Load Current 853 Amperes. Direct or Alternating Current D.C.

alternating current system, state the periodicity -- Has the Automatic Governor been tested and found as per rule when full load is suddenly
own on and off Yes Generators, are they compounded as per rule Yes is an adjustable

ulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with
kets Yes Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes

the lubricating arrangements of the generators as per Rule Yes If the generators are under 100 kw. full load rating, have the Makers supplied
ificates of test -- and do the results comply with the requirements. -- If the generators are 100 kw. or over have they been

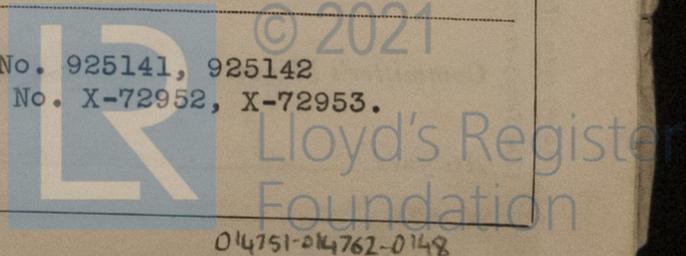
ilt and tested under survey Yes
ANS. Are approved plans forwarded herewith for ~~Survey~~ N.Y. Feb. 26, 45 Receivers -- Separate Tanks --
(If not, state date of approval)

IRE GEAR To Rule Requirements. See Clv. Rpt. No. 1363 for list of spares.

The foregoing is a correct description,

Engine Serial No. 925141, 925142
Generator Ser. No. X-72952, X-72953.

Manufacturer.



014751-214762-0148

Dates of Survey while building { During progress of work in shops -- } Feb. 25, Mar. 11, 25, April 12, 18, 20, May 9, 18, 24, 26, June 8, 15, July
 { During erection on board vessel --- }
 Total No. of visits 14

Dates of Examination of principal parts—Cylinders 9-5-49 Covers 9-5-49 Pistons 9-5-49 Piston rods
 Connecting rods 9-5-49 Crank and Flywheel shafts 9-5-49 Intermediate shafts

Crank ~~and pistons~~ shafts, Material Cast Alloy Iron Identification Marks LLOYDS 6814, 6815

Intermediate shafts, Material O.H. Forged Steel Identification Marks LLOYDS 6814A, 6815A

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.)

These auxiliary diesel generator sets have been built under the Society's Special Survey in accordance with the Rules and approved plans. On completion the engines were tested under full load and overload power and found satisfactory. The governor and safety devices were tested and found efficient. The running parts were afterwards opened up for examination and found good. On completion the generators were tested separately under full load and overload power with satisfactory results. The generators were then mounted with their respective engines on fabricated sub-bases, the alignment of couplings checked and found good. The materials and workmanship throughout are of a good quality. Attached to this report are the manufacturer's certified test reports covering the crankshafts, armature shafts and connecting rods.

It is recommended that these two generator sets be incorporated in the vessels machinery record of *LMC (with date), subject to their being installed in the vessel and tested under working conditions, all to the satisfaction of the Society's Surveyors.

The amount of Fee £434.00 : { When applied for, Sept. 9, 19 49 }
 Travelling Expenses (if any) £210.00 : { When received, 19 }

R. S. Hørgensen
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 29 SEP 1950

Assigned See minute on S.C.Rpt.



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