

COPY.

Lloyd's Register of Shipping.



Port of STETTIN,

29th March, 1938.

This is to Certify that

-- N. S t o l t e --

the undersigned Surveyor to this Society did at the request of Messrs. Rheinmetall-Borsig Akt.Ges., examine on the 23rd July, 1937, and subsequently during construction at their works in Berlin-Tegel the following parts of a Refrigerating installation, to the order of Messrs. N.V. Maschinesfabriek en Scheepswerf van P. Smit jr., Rotterdam, for their Yard No. 515:-

Three compressors each of two cylinders of 65 mm. diameter and 110 mm. stroke, three double-tube condensers, three oil separators, three strainers, three inter-coolers and one evaporator casing with three sections.

All of these parts are made in accordance with the approved plans, and when tested in the presence of the undersigned to the required pressures, viz:- 210 kg. per sq.cm. water- and 105 kg. per sq.cm. air- whilst submerged in water for compressor cylinders, condensers and connections, separators, strainers and inter-coolers, and .1 kg. per sq.cm. water- for the evaporator casing, were found tight and sound in every respect. The workmanship thereon is efficient.

They have been marked:-

Lloyd's Test
210/105 Ats.
N.S. & dates.

Evaporator casing:
.1 Ats.
N.S. 20.1.38.



(Continuation)

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:-

"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

C o n t i n u a t i o n .

Refrigerating installation P. Smit jr.'s S.515:-

All forgings and castings used in construction of the above parts have been examined during the various stages of manufacture and were found satisfactory and of a good finish.

Material tests thereon were carried out with following result:-

	<u>Tensile strength.</u> kgs/sq.mm.	<u>Elongation %.</u>
Compressor cylinders	54.4, 54.4, 56.-	26.7, 28.-, 26.-
Crank shafts	46.5, 48.1, 46.3	36.-, 34.5, 34.5
Connecting rods	44.9	36.-
Piston rods	82.6, 82.8	17.-, 18.7%

All cold bend tests 180 degrees, good.

The crank shafts are marked:- Lloyd's

No.109,110,111. *NS*

H.S. 2.11.37.

all other parts:- "*NS*".



M. H. H. H.

Surveyor to Lloyd's Register.



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C o n t i n u a t i o n .

Refrigerating installation P. Smit jr.'s 8.515:-

All forgings and castings used in construction of the above parts have been examined during the various stages of manufacture and were found satisfactory and of a good finish.

Material tests thereon were carried out with following result:-

	<u>Tensile strength.</u> kgs/sq.mm.	<u>Elongation %.</u>
Compressor cylinders	54.4, 54.4, 56.- ..	26.7, 28.-, 26.-
Crank shafts	46.5, 48.1, 46.3 ..	36.-, 34.5, 34.5
Connecting rods	44.9	36.-
Piston rods	82.6, 82.8	17.-, 18.7%

All cold bend tests 180 degrees, good.

The crank shafts are marked:- Lloyd's *NS*
No. 109, 110, 111.
H.S. 2.11.37.

all other parts:- "*NS*".



A. Holm

Surveyor to Lloyd's Register.



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