

LLOYD'S REGISTER OF SHIPPING

No. 0-89788

Port KOBE

19th June, 1963

This is to Certify that

K. YAMAZAKI,

the undersigned Surveyor to this Society did at the request of

Messrs. Kubota Iron & Machinery Works, Ltd., Diesel Plant, Sakai

attend at their works for the purpose of examining and testing

on the 5th February, 1963 and subsequently

One (1) emergency Oil Engine designated driving 100 KVA A.C. Generator and intended for Ship No. 161 being built by Mitsubishi Shipbuilding & Engineering Co., Ltd., Particulars of the engine are as follows:- Hiroshima Works, Hiroshima.

Engine Number	No. 5067
Type	Vertical Single Acting 4-Stroke Cycle
Number of Cylinders	5
Diameter of Cylinders	170 m/m
Stroke	220 m/m
Maximum Pressure	60 kg/cm ²
Mean Indicated Pressure	5.88 kg/cm ²
Brake Horse Power	130
Revolutions per Minute	1,000
Span of Bearings	218 m/m
Diameter of Journals	125 m/m
Diameter of Crankpins	110 m/m
Breadth of Webs	155 m/m
Thickness of Webs	60 m/m

No. & total area of crank case explosion relief valve: 1 x 100 m/m Dia.

This engine has been built under Special Survey, in accordance with the Approved Plans and Rules of the Society, materials and workmanship being good.

On completion, the above machinery was tried in the shops under working conditions with satisfactory results, and opened up after trials and found to be in good order.

For purposes of identification the cylinder block and crankshaft were stamped thus:-

Cylinder Block

LLOYD'S TEST

TP 4 & 90 KG
KO 5-4-63
HN 2-5-63 LR

Crank Shaft

LLOYD'S TEST

No. YKA NO. Y19759-2
F.I. HN 2-5-63 LR

SHOP TRIAL

KY LR

18-6-63

Engine Surveyor to
Lloyd's Register of Shipping

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."