

# LLOYD'S REGISTER OF SHIPPING



No. 0-76774

Port KOBE

22nd February, 1962.

**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  
One (1) Kubota ED5JZ Type Vertical Single Acting 4 Cycle Emergency Oil Engine  
intended for Ship No.146 being built by Mitsubishi Shipbuilding & Eng., Co., Ltd.,  
Hiroshima Works, Hiroshima.

Particulars of the engine are as follows:-

Engine Number	5050
Type	Kubota ED 5 JZ
Number of Cylinders	5
Diameter of Cylinders	170mm
Stroke	220
Maximum Pressure	60 Kg/cm <sup>2</sup>
Mean Indicated Pressure	5.85 kg/cm <sup>2</sup>
Brake Horse Power	130 PS
Revolutions per Minute	1000
Span of Bearings	218 mm
Diameter of Journals	125 mm
Diameter of Crankpins	110 mm
Breadth of Webs	155 mm
Thickness of Webs	60mm

No.4 total area of crankcase explosion relief valves: 1 x 100mm  $\phi$

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.

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

**LLOYD'S TEST** MOB  
W.T.P. 4, 6 & 90KG  
YK 14-11-61 LR

KE5167-A5  
**LLOYD'S TEST**  
No K-F3103  
ET 4-11-61 LR

**SHOP TRIAL**  
KY LR  
22-2-62

*K. Yamazaki*

Engineer 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."