

LLOYD'S REGISTER OF SHIPPING



No. M-11671

Port YOKOHAMA

20th February, 1965

This is to Certify that

R. TANEDA

the undersigned Surveyor to this Society did at the request of

Messrs. Mitsubishi Heavy Industries, Ltd., Yokohama Shipyard & Engine Works, Yokohama attend at their works for the purpose of examining and testing Two (2) Diesel Engines with supercharger for driving DC 195 KW and AC 240 KVA Generators and Air compressor through magnetic clutch intended for the Ship No. 356 being built by Hakodate Dock Co., Hakodate.

Particulars of the engine are as follows:-

Engine Number	<u>D1 3019 & D1 3021</u>
Type	<u>YOKOHAMA MAN G5V 24/30AL</u>
Number of Cylinders	<u>5</u>
Diameter of Cylinders	<u>240 mm</u>
Stroke	<u>300 mm</u>
Maximum Pressure	<u>90 kg/cm²</u>
Mean Indicated Pressure	<u>14.0 kg/cm²</u>
Brake Horse Power	<u>650</u>
Revolutions per Minute	<u>750</u>
Span of Bearings	<u>302 mm</u>
Diameter of Journals	<u>190 mm with 30.5mm dia. central hole</u>
Diameter of Crankpins	<u>190 mm with 70mm dia. hole offset from centre</u>
Breadth of Webs	<u>268 mm</u>
Thickness of Webs	<u>88 mm</u>
Crankcase volume	<u>1.59 m³</u>
No. and total area of crankcase relief valves	<u>3 & 259.5 cm²</u>

These engines have 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:-

Cylinder Blocks

LLOYD'S TEST YKA

5 KG

RT 14-12-64

Crankshafts

LLOYD'S TEST YKA

No. Y 23611 & Y 23440

TN 19-6-64

RT 18-12-64

[Signature]
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."