

LLOYD'S REGISTER OF SHIPPING

Port MANNHEIM10th March, 1961

No. 714 932

No. 5484-85, 5211-12, MA 12617

This is to Certify that
Karl Steinbrecher

the undersigned Surveyor to this Society did at the request of
Messrs. Motoren - Werke Mannheim AG. of Mannheim

attend at their works for the purpose of examining and testing
 one auxiliary diesel engine, made to the order of Messrs.
Bauscher & Co., Miltenberg/Main.

Particulars of the engine are as follows:-

Engine Number..... **10145/8/367**
 Type **KD 412 E**
 Number of Cylinders **1**
 Diameter of Cylinders **105 mm**
 Stroke **120 mm**
 Maximum Pressure **60 kg/cm²**
 Mean Indicated Pressure **6.9 kg/cm²**
 Brake Horse Power **9.5 PS**
 Revolutions per Minute **1500**
 Span of Bearings **167 mm**
 Diameter of Journals **63 mm**
 Diameter of Crankpins **73 mm**
 Breadth of Webs **90 mm**
 Thickness of Webs **34 mm**
 Crankcase volume: **0.522 m³**

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
 under working conditions with satisfactory results.
 (see test report attached).

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

Crankcase:

Crankshaft: (see Dortmund. cert. DoF. 60/458
& 60/1357)

LLOYD'S TEST
 TP. 10 kg/cm² 11.7 sq. in.
 KS 3.3.61 KS

LLOYD'S TEST
 No. 1/1 - 13 5.5.60
 LLOYD'S AUG C 218238/1/1
 H.K.S. 20.7.60

Fee:— £ **24.**

R. Steinbrecher
 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:—

that the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be
 that neither the Society nor any Member of any of its Committees is under any circumstances whatever to be held responsible for any
 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
 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.