



LLOYD'S REGISTER OF SHIPPING

1, Slottsgate, Bergen

Telegrams: Surveyor, Bergen 9th April, 1960.

Telephone { Office: 15634
Private: 9037

RECEIVED

Dear Sir,

11 APR 1960

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M/S "NORSTRAUM"
Fitting of reconditioned main engine.

For the above ship which sustained damage to the main engine crankshaft, the owners decided to fit a reconditioned main engine made by Messrs. Wichmann Motorfabrikk A/L, Rubbestadneset.

The engine is a 4 cylinder Wichmann semi-diesel engine, type 4 AB, 240 BHP at 350 RPM.

The bedplate, thrustshaft with coupling and crankrods and propeller have previously been used, and the crankshaft, bearings, cylinders, covers, pistons and top ends are new.

The engine parts have been examined and found good and the cylinders and covers will be tested before assembling, and engine tested on completion.

The screwshaft will be renewed of LR material, but the crankshaft, crankrods, thrustshaft and propeller have been tested by N.V.

Brinell check tests of the N.V. tested material have been taken with good results.

Copies of the N.V. certificates are forwarded herewith together with plans in triplicate of the engine seating.

Calculations of torsional vibration characteristics with plans of shafting and propeller will be forwarded in due course.

As the matter is very urgent, the engine will be installed in about two weeks time, we shall be glad to be informed by cable as soon as possible if this reconditioned main engine will be accepted, and also if the plan of the engine seating is in order.

SHIP

Yours faithfully
THE SURVEYORS
Per

The Secretary,
London.

SURVEYOR TO LLOYD'S REGISTER

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CLASSIFICATION

RECEIVED NOV 28 1964

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Foundation