

st. 4b

1.0 OCT 1963

workmanship as fully as possible of writing report L.R. 924b 16.7.63

Received London Port Köln No. 843 In shops 5 First date 10.4.63 Last date 5.6.63 No. of visits On vessel

is in Köln-Deutz The J. 1.8369.0.7036

FIRST ENTRY REPORT ON INTERNAL COMBUSTION MACHINERY

Managers D.W. Kremer & Sohn Port of Registry Elmshorn Year Month built at Köln-Deutz By Klöckner-Humboldt-Deutz AG Yard No. 1101 When 6.63 Engines made at By Blr. Nos. Machinery installed at

following particulars should be given as fully and as clearly as possible. Where the answer is "No" or "None", say so! Ticks and other signs of doubtful meaning are not to be used.

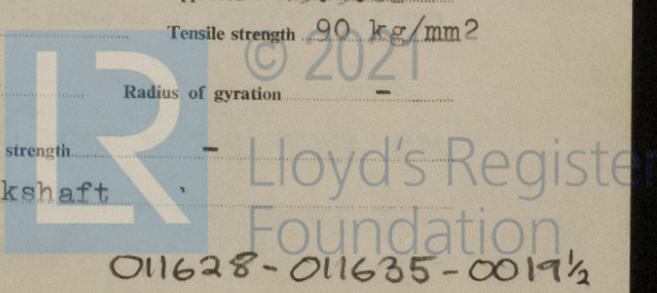
MAIN RECIPROCATING ENGINES. Licence Name and Type No. one airless injection heavy oil SBA8M 517 of cylinders per engine 8 Dia. of cylinders 130 mm stroke(s) 170 mm 2 or 4 stroke cycle 4 Single or double acting single Maximum approved BHP per engine 230 at 1350 RPM of engine and 230 RPM of propeller. Maximum cylinder pressure 70 kg/cm2 Machinery numeral 46

FOUR STROKE ENGINES. Is the engine of opposed piston type? No. of exhaust gas driven scavenger blowers per engine 1 No. of supercharge air coolers per engine none Supercharge air pressure at full load 360 mm Hg Can engine operate without supercharger? yes

NO. OF VALVES PER CYLINDER: Fuel 1 Inlet 1 Exhaust 1 Starting none Safety none Material of cylinder covers cast iron Material of piston crowns aluminium Is the engine equipped to operate on heavy fuel oil? no

CRANK & FLYWHEEL SHAFTING. Date of approval of torsional vibration characteristics of the propelling machinery system 28/8/63 State barred speed range(s), if imposed 308. working propeller 100. positioned? opposite flywheel Type friction damper No. of main bearings 9

CRANKSHAFT TYPE: Built, semi-built, solid. (State which) solid Diameter of journals 90 mm Diameter of crankpins Centre 85 mm Side 85 mm Breadth of webs at mid-throw 130 mm Axial thickness of webs 32.5 mm



GENERAL REMARKS

State if the machinery has been constructed and/or installed under special survey in accordance with the Rules, approved plans and Secretary's letters. State quality of materials and workmanship recommendations for classification, including any special notation to be assigned. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

This engine has been constructed under special survey of tested materials and is in accordance with the Secretary's letters, approved plans and Rules Requirements. The materials and workmanship are good and the engine, when tested in the shops under full and overload conditions was found to function satisfactorily. The governor test were also found satisfactory. This engine, in my opinion, is suitable for main propulsion purposes and when satisfactorily installed and reported will be eligible to receive the notation * LMC (with date).

H. Droge
 Engineer Surveyor to Lloyd's Register of Ships

PARTICULARS OF IDENTIFICATION MARKS ((Including Port of origin) of important Forgings and Castings. (Copies of certificates should be forwarded with report.)

Conn. RODS LLOYD'S KLN. 211/9-16 K.B. 20.3.63

CRANKSHAFT OR ROTOR SHAFT LLOYD'S DSF 518 H.S. 26.2.63 ✓

FLYWHEEL SHAFT -

THRUST SHAFT -

GEARING -

INTERMEDIATE SHAFTS -

SCREW AND TUBE SHAFTS -

PROPELLERS -

OTHER IMPORTANT ITEMS supercharger: G.Fi. - 6.3.63 LR - 27 183.

Is the installation a duplicate of a previous case? yes If so, state name of vessel KLN. Rpt. 816, Engine No.

Date of approval of plans for crankshaft 15.9.62 Straight shafting - Gearing - Clutch -

Separate oil fuel tanks - Pumping arrangements - Oil fuel arrangements -

Cargo oil pumping arrangements - Air receivers - Donkey boilers -

Dates of examination of principal parts:-

Fitting of stern tube - Fitting of propeller - Completion of sea connections - Alignment of crank shaft in main bearings -

Engine chocks & bolts - Alignment of gearing - Alignment of straight shafting - Testing of pumping arrangements -

Oil fuel lines - Donkey boiler supports - Steering machinery - Windlass -

Date of Committee FRIDAY - 1 NOV 1963 Special Survey Fee DM. 308.-

Decision Su Han 12987 Runn. Test DM. 100.-

Expenses DM. 40.-

Date when A/c rendered KLN. 6657 d



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