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Rpt. 4c L.R. 960a

Date of writing report 1.7.63

Received London

Port Köln

No. 840

Survey held at Köln-Deutz

No. of visits 6

First date 10.4.63

Last date 17.5.63

22 JUL 1963

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship B.N. 1.8458.0.0059
(Or Contract No. if name unknown).Owners Ad. Strüver, Hamburg; 311 M 43267/68
(Or Consignees)

Ship Built at

by

when

Yard No.

Auxiliary Engines ~~or Gas Turbines~~ made at Köln-Deutz

by

when

Eng. Nos.

Total No. of sets and description (including type name)

one airless injection heavy oil A8M 528

INTERNAL COMBUSTION RECIPROCATING ENGINES

No. of cylinders per engine

Dia. of cylinders

Stroke

2 or 4 stroke cycle

Service B.H.P.

Maximum approved BHP

at

RPM

Corresponding MIP

Maximum pressure

Fuel Diesel

Are cylinders arranged in Vee or other special formation?

no

If so, No. of

crankshafts per engine

Is engine of opposed piston type?

No. and type of mechanically driven scavenge pumps or blowers

per engine

No. of exhaust gas driven blowers or superchargers per engine

Is welded construction

used for: Bedplate?

Entablature?

Total internal volume of crankcase (if 20 cu. ft. or over)

No. and total area of

crankcase explosion relief devices

Are flame guards or traps fitted?

Cooling medium for: Cylinders

Pistons

No. of attached pumps: F.W. cooling

S.W. cooling

Lubricating oil

How is engine started?

SHAFTING.

Is a damper or detuner fitted?

No. of main bearings

Are bearings of ball or roller type?

Distance between

inner edges of bearings in way of cranks

Crankshaft: Built, semi-built, solid

Material of crankshaft

Approved

minimum tensile strength

Dia. of pins

Journals

Breadth of webs at mid throw

Axial

thickness

If shrunk, radial thickness around eyeholes

Dia. of flywheel

Weight

Are balance

weights fitted?

Total weight

Rad. of gyration

Dia. of flywheel shaft

water brake

Has each engine been tested in shop?

How long at full power?

Was it tested with driven machinery attached?

Was the

governing tested and found satisfactory?

Date of approval of torsional vibration characteristics (for engines of 150 BHP and over)

Date of approval of shafting

Identification marks on shafting

LLOYD'S AUG AU 20 H.K.S. 22.2.63 C539:586/6297

Particulars of driven machinery

Port and No. of Certificate for Starting Air Receivers

AUXILIARY GAS TURBINES.

BHP per set

At

RPM of output shaft

Open or closed cycle?

Arrangement of turbines

HP drives

at

RPM

HP gas inlet temp.

pressure

(A small diagram should be attached showing gas cycle)

IP

LP

at

RPM

IP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

LP

No. of air compressors per set

Centrifugal or axial flow type?

Material of turbine blades

Material of compressor blades

No. of air coolers per set

No. of heat exchangers per set

How are

turbines started?

Are the turbines operated in conjunction with free piston gas generators?

Total No. of free piston gas generators

Dia. of working pistons

Dia. of compressor pistons

No. of double strokes

per minute at full power

Gas delivery pressure

Gas delivery temperature

Have the turbines and attached equipment been tested in shop?

How long at full power?

Were they tested with driven machinery

attached?

Particulars of gearing

Date of approval of plans

Identification marks

Particulars of driven machinery

ELECTRIC GENERATORS.

Port and No. of Certificate for generators of 100 Kw. and over

For generators under 100 Kw., has Makers' Certificate been obtained?

Are Certificates attached?

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)

Klöckner-Humboldt-Deutz

Aktiengesellschaft

Manufacturer

Is this machinery duplicate of a previous case? yes If so, which?

KLN. Rpt. 820, Engine No. 3454270-277

GENERAL REMARKS.

State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters.

State quality of materials and workmanship. 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. This engine, in my opinion, is suitable for installation in a vessel classed with this Society.

Survey Fee DM. 588.-

RT DM. 100.-

Expenses DM. 69.-

Date when a/c rendered KLN. 6558 dd. 14.6.63

For K. Böttcher and K. Weltken

H. Dröge

Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the

at TROGIR in a proper manner and found satisfactory when tested on the (date) 10.3.1965 under full working conditions.

Engineer Surveyor to Lloyd's Register

Foundation

012124-012128-0092

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.

E7 AUG 1963