

pt. 4b. No. 10636. 22 DEC 1952

REPORT ON OIL ENGINE MACHINERY.

Received at London Office

19. Port of AMSTERDAM

Survey held at Alphen 1/2 Rijn Date, First Survey January 25 Last Survey November 12 1952

Single on the Twin Triple Quadruple M.V. DALKEY COAST

20 Atm. Lubeck By whom built TRAVE WERFT Yard No. 194 When built

Alphen 1/2 Rijn By whom made N.V. De Industriële Motorenfabriek Engine No. 4053 When made 1952

Boilers made at By whom made Boiler No. When made

000 Owners Port belonging to

160 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

de for which vessels intended

ENGINES, &c. Type of Engines Heavy oil eng. type 8D30D Supercharged by exhaust gas blowers. 2 or 4 stroke cycle 4 Single or double acting Single

imum pressure in cylinders 55 kg/cm² Diameter of cylinders 305 mm Length of stroke 460 mm No. of cylinders 8 No. of cranks 8

n Indicated Pressure 9.17 kg/cm² Ahead Firing Order in Cylinders 1-5-7-3-8-4-2-6 Span of bearings, adjacent to the crank, measured

inner edge to inner edge 353 mm Is there a bearing between each crank yes Revolutions per minute 350

heel dia. 1130 mm Weight 1500 kg Moment of inertia of flywheel (lbs. in² or Kg. cm.²) Means of ignition Compression Kind of fuel used Diesel oil

ak Solid forged dia. of journals as per Rule as applied 236 mm Crank pin dia. 210 mm Crank webs Mid. length breadth as app. Mid. length thickness plan Thickness parallel to axis shrunk Thickness around eye hole

ft. All built as fitted

heel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thrust Shaft, diameter at collars as fitted

Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted Is the tube shaft fitted with a continuous liner

ze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted Is the after end of the liner made watertight in the

eller boss If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

7, 9, 14, 2e liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-

sive If two liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after

ng rods tube shaft If so, state type Length of bearing in Stern Bush next to and supporting propeller

shaft -ller, dia Pitch No. of blades Material whether moveable Total developed surface sq. feet

bolts 11.5.5 of inertia of propeller (lbs. in² or Kg. cm.²) Kind of damper, if fitted

ditions 18. & 22 od of reversing Engines direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of

mark forced Thickness of cylinder liners 24 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled

marks 6 HS ed with non-conducting material yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned

rk HS 2 W.F.C. the engine Cooling Water Pumps, No. 2 each cap. 18 m³/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

connected to the Main Bilge Line No. and size How driven

ooling water led to the bilges If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping

ments

Pumps, No. and size Power Driven Lubricating Oil Pumps, including spare pump, No. and size 5400 lts/h. started wheel pump cap.

ndependent means arranged for circulating water through the Oil Cooler Suctions, connected to both main bilge pumps and auxiliary

mps, No. and size: In machinery spaces In pump room

, &c.

ndent Power Pump Direct Suctions to the engine room bilges, No. and size

he bilge suction pipes in holds and tunnel well fitted with strum-boxes Are the bilge suction in the machinery spaces led from easily

e mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

ea Connections fitted direct on the skin of the Ship Are they fitted with valves or cocks Are they fixed

ly high on the ship's side to be seen without lifting the platform plates Are the overboard discharges above or below the deep water line

each fitted with a discharge valve always accessible on the plating of the vessel Are the blow off cocks fitted with a spigot and brass covering plate

oes pass through the bunkers How are they protected

ntinuously es pass through the deep tanks Have they been tested as per Rule

g trials are pes, cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times

angement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery

from one compartment to another Is the shaft tunnel watertight Is it fitted with a watertight door worked from

vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Compressors, No. 1 cap. 18 m³/h No. of stages 2 diameters 90-114 mm stroke 90 mm driven by ME

Air Compressors, No. No. of stages diameters stroke driven by

iliary Air Compressors, No. No. of stages diameters stroke driven by

ision is made for first charging the air receivers

g Air Pumps, No. diameter stroke driven by

Engines crank shafts, diameter as per Rule as fitted No. Position

uxiliary engines been constructed under special survey Is a report sent herewith



48 18636

AIR RECEIVERS:—Have they been made under survey..... State No. of report or certificate.....

Is each receiver, which can be isolated, fitted with a safety valve as per Rule.....

Can the internal surfaces of the receivers be examined and cleaned.....

Is a drain fitted at the lowest part of each receiver.....

Injection Air Receivers, No..... Cubic capacity of each..... Internal diameter..... thickness.....

Seamless, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

Starting Air Receivers, No..... Total cubic capacity..... Internal diameter..... thickness.....

Seamless, welded or riveted longitudinal joint..... Material..... Range of tensile strength..... Working pressure.....

IS A DONKEY BOILER FITTED..... If so, is a report now forwarded.....

Is the donkey boiler intended to be used for domestic purposes only.....

PLANS. Are approved plans forwarded herewith for shafting..... 12-11-52..... Receivers..... Separate fuel tanks.....

Donkey boilers..... General pumping arrangements..... Pumping arrangements in machinery space.....

Oil fuel burning arrangements.....

Have Torsional Vibration characteristics been approved..... *yes provisionally*..... Date of approval *see letter Eng 3-12-52 to*  
*Surveyor Hamburg*  
SPARE GEAR.

Has the spare gear required by the Rules been supplied.....

State the principal additional spare gear supplied.....

The foregoing is a correct description,

D. en JOH. BOOT N.V.  
MOTORENFABRIEK  
DE INDUSTRIE  
ALPHEN AAN DE RIJN

Dates  
of Survey  
while  
building

During progress of  
work in shops - -

During erection on  
board vessel - -

Total No. of visits.....

25/1 - 1/2 - 15/2 - 29/2 - 14/3 - 30/3 - 25/4 - 13/5 - 4/6 - 12/52

Dates of examination of principal parts—Cylinders 30-9-52 Covers 13-10-52 Pistons 13-10-52 Rods - - Connecting rods 25/11-12/52

Crank shaft 4-9-52 Flywheel shaft..... Thrust shaft..... Intermediate shafts..... Tube shaft.....

Screw shaft..... Propeller..... Stern tube..... Engine seatings..... Engine holding down bolts.....

Completion of fitting sea connections..... Completion of pumping arrangements..... Engines tried under working conditions.....

Crank shaft, material *SM Steel* Identification mark *Lloyd No 131* Flywheel shaft, material..... Identification mark.....

Thrust shaft, material..... Identification mark..... Intermediate shafts, material..... Identification marks.....

Tube shaft, material..... Identification mark..... Screw shaft, material..... Identification mark.....

Identification marks on air receivers.....

Welded receivers, state Makers' Name.....

Is the flash point of the oil to be used over 150°F.....

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with.....

Description of fire extinguishing apparatus fitted.....

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo..... If so, have the requirements of the Rules been complied with.....

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with.....

Is this machinery duplicate of a previous case..... If so, state name of vessel.....

General Remarks (State quality of workmanship, opinions as to class, &c.....)

*This engine has been built under special survey in accordance with approved plans, Society Rules*

*Materials tested as required and workmanship found good*

*The engine with exhaust gas turbine supercharger has been tested under full load condition on Makers testbed and found functioning satisfactory*

*Copy cert C 3316 Windmill dd 9-6-52 of exhaust gas pressure charger and copy cat Amsterdam F 405 dd 25-11-52 of crankshaft added*

*After trial and inspection the engine is shipped to Trave Wulf at Lübeck destination Yard No. 19*

*This engine merits in my opinion the approval of the Committee*

The amount of Entry Fee ... *£ 598.-*

Special ... ..

Donkey Boiler Fee... ..

Travelling Expenses (if any) £ *30.-*

(Committee's Minute

Assigned

TUESDAY 22 SEP 1953

*See Rpt 40*

When applied for *17/12 1952*

When received *23/1 1953*

Engineer Surveyor to Lloyd's Register of Shipping



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Lloyd's Register  
Foundation

Rpt. 4c.

Date of writing Rep

No. in Survey

Reg. Book.

Supplement  
91652

Built at *Lübeck*

Owners.....

Oil Engines made

Generators made

No. of Sets

Is Set intended for

OIL ENGINES

Maximum pressure

Mean indicated pressure

Is there a bearing

Flywheel dia. 590

Crank Shaft, { Solid

{ Semi

{ All-

Flywheel Shaft, dia

Are means provided

Are the cylinders fit

Cooling Water Pump

Lubricating Oil Pump

Air Compressors, N

Scavenging Air Pump

AIR RECEIVERS

(other than main engine)

State full details of

Can the internal sur

Is there a drain arra

High Pressure Air

Seamless, lap welded

Starting Air Receiver

Seamless, lap welded

ELECTRIC GENERATORS

Pressure of supply

If alternating current

on and off *yes*

Are all terminals acc

or shielded that they

of the generators are

of the generators are

details of driven ma

PLANS.—Are approved

Have Torsional Vibration

as the spare gear re