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Apt. 4b

REPORT ON OIL ENGINE MACHINERY.

No. 17391

Received at London Office 23 APR 1928

Date of writing Report 10-4-1928. When handed in at Local Office ..... 19.. Port of Rotterdam

No. in Survey held at Bolnes. Date, First Survey 16-2-28 Last Survey 29-3-1928

Reg. Book. Number of Visits 4

✓ on the Single / ~~Twin~~ / ~~Triple~~ Screw ~~vessels~~ motor vessel "SKELLJUNGER" Tons Gross 147.00 Net 74.88

Built at Bolnes. By whom built Gebr. Pot. Yard No. 800 When built 1928

Engines made at Amsterdam. By whom made N.V. Kromhout Motoren fabr. type 4 M 4. Engine No. 4351 When made 1928

Donkey Boilers made at ✓ By whom made ✓ Boiler No. When made ✓

Brake Horse Power 200 Owners Holt Aff. Elagio Shell A. Port belonging to Reykjavik.

Nom. Horse Power as per Rule 57. ✓ Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes ✓

OIL ENGINES, &c.—Type of Engines Please see Amsterdam Kep. 10909 A 2 or 4 stroke cycle ✓ Single or double acting ✓

Maximum pressure in cylinders ✓ No. of cylinders ✓ Diameter of cylinders ✓ No. of cranks ✓ Length of stroke ✓

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge ✓ Is there a bearing between each crank ✓

Revolutions per minute ✓ Flywheel dia. ✓ Weight ✓ Means of ignition ✓ Kind of fuel used ✓

Crank Shaft, dia. of journals as per Rule ✓ as fitted ✓ Crank pin dia. ✓ Crank Webs Mid. length breadth ✓ Mid. length thickness ✓ shrunk Thickness parallel to axis ✓ Thickness around eyehole ✓

Flywheel Shafts, diameter as per Rule ✓ as fitted ✓ **Intermediate Shafts,** diameter as per Rule ✓ as fitted ✓ **Thrust Shaft,** diameter at collars as per Rule ✓ as fitted ✓

Tube Shafts, diameter as per Rule ✓ as fitted ✓ **Screw Shaft,** diameter as per Rule ✓ as fitted ✓ Is the tube / screw shaft fitted with a continuous liner ✓ ✓

Bronze 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

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

If the 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-corrosive ✓

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

end of the tube shaft ✓ Length of Bearing in **Stern Bush** next to and supporting propeller ✓

Propeller, dia. 1550 m/m Pitch 1000 m/m. ✓ No. of blades 4. ✓ Material Bronze ✓ whether Moveable no Total Developed Surface ✓ sq. feet

Method of reversing Engines ✓ Is a governor or other arrangement fitted to prevent racing of the engine when declutched ✓ Means of lubrication

✓ Thickness of cylinder liners ✓ Are the cylinders fitted with safety valves ✓ Are the exhaust pipes and silencers water cooled or lagged with

non-conducting material ✓ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine ✓

Cooling Water Pumps, No. ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓

Bilge Pumps fitted to the **Main Engines,** No. ✓ Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓

Pumps connected to the **Main Bilge Line** No. and Size 2 × 100 × 150 m/m. ✓ How driven Kromhout oil engine. ✓

Ballast Pumps, No. and size ✓ **Lubricating Oil Pumps,** including Spare Pump, No. and size ✓

Are two independent means arranged for circulating water through the **Oil Cooler** ✓ **Suctions,** connected to both Main Bilge Pumps and Auxiliary Bilge

Pumps, No. and size:—In Engine and Boiler Room 4 à 2½". ✓

Holds, &c. ✓

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 à 2½" ✓

Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Yes. ✓ Are the Bilge Suctions in the Machinery Space

led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes ✓

Are all **Sea Connections** fitted direct on the skin of the ship Yes ✓ Are they fitted with Valves or Cocks Valves & cocks. ✓

Are they fixed sufficiently high on the ship's side to be seen without lifting the ~~platform~~ plates Yes ✓ Are the Overboard Discharges above or below the deep water line above ✓

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate ✓

What pipes pass through the bunkers ✓ How are they protected ✓

What pipes pass through the deep tanks ✓ Have they been tested as per Rule ✓

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ✓

Is the arrangement 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 spaces, or from one

compartment to another Yes ✓ Is the Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

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

Main Air Compressors. No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Auxiliary Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Small Auxiliary Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓

Scavenging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

Auxiliary Engines crank shafts, diameter as per Rule ✓ as fitted ✓

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule ✓

Can the internal surfaces of the receivers be examined ✓ What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver ✓

High Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓

Seamless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

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

Seamless, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓

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

HYDRAULIC TESTS:—

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
Engine Cylinders					
„ „ Covers					
„ „ Jackets					
„ Piston Water Passages					
Main Compressors—1st Stage					
„ 2nd „					
„ 3rd „					
Air Receivers-Starting					
„ Injection					
Air Pipes					
Fuel Pipes					
Fuel Pumps					
Silencer					
„ Water Jacket					
Separate Fuel Tanks					

PLANS. Are approved plans forwarded herewith for Shafting ✓ (If not, state date of approval) Receivers ✓ Separate Tanks ✓

Donkey Boilers ✓ General Pumping Arrangements 20-1-28. Oil Fuel Burning Arrangements ✓

SPARE GEAR

The foregoing is a correct description.

Manufacturer.

Dates of Survey while building { During progress of work in shops- ✓ / During erection on board vessel- 16/2 - 6-21/3 - 29/3 - 28 / Total No. of visits 4.

Dates of Examination of principal parts—Cylinders ✓ Covers ✓ Pistons ✓ Rods ✓ Connecting rods ✓

Crank shaft ✓ Flywheel shaft ✓ Thrust shaft ✓ Intermediate shafts ✓ Tube shaft ✓

Screw shaft ✓ Propeller 6/3-'28 Stern tube 16-2-28 Engine seatings 21-3-28 Engines holding down bolts 21-3-28

Completion of fitting sea connections 16-2-28 Completion of pumping arrangements 29-3-28 Engines tried under working conditions 29-3-28.

Crank shaft, Material ✓ Identification Mark ✓ 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 ✓

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

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. The machinery having been built under special survey and fitted in accordance to the Society's Rules, approved plans, Secretary's letters, was found in a good working condition during a trial trip in the North Sea, and I am of opinion that this vessel is eligible to be recorded in the Society's Register Book with record of ✠ L.M.C. 3-28. oil engines. C.L.

Certificate (if required) to be sent to .....

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee ...	£ 50.00	When applied for,	20/4 19 28
Special	: :		
Donkey Boiler Fee ...	£ : :	When received,	15/5 19 28
Travelling Expenses (if any)	£ 16.00 :		

Committee's Minute FRI. 27 APR 1928

Assigned + Lmb. 3.28 CL. At Eng.

CERTIFICATE WRITTEN.

C H Bource

Engineer Surveyor to Lloyd's Register of Shipping.

This Certificate is issu
"While the Committe
be understood that neith
by inaccuracy in any repo
ublication of the Society,
the Society."

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