

REPORT ON OIL ENGINE MACHINERY.

No. 12063

Received at London Office

FRI. 20 DEC. 1921

Date of writing Report 30-11-1921 When handed in at Local Office

Port of

No. in Survey held at Reg. Book.

Date, First Survey 5-7-21 Last Survey 24-11-1921

Number of Visits

on the ^{Single} ~~Two~~ _{Triple} Screw vessels

HVITSKJAELE

Tons ^{Gross} _{Net}

Master Built at *Nymegen* By whom built *De Waal* Yard No. 55 When built 1921

Engines made at *Amsterdam* By whom made *Thornhout Motorenfabriek* Engine No. 1884 When made 1921

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

Brake Horse Power 180 Owners *North English Mineral Oil Co. Amsterdam.* Port belonging to *Christiana*

Nom. Horse Power as per Rule 52 ⁵¹ Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *No*

OIL ENGINES, &c.—Type of Engines *See Amsterdam Report No. 8430*

Maximum pressure in cylinders No. of cylinders No. of cranks Diameter of cylinders

Length of stroke Revolutions per minute 250 Means of ignition *Hot bulb* Kind of fuel used

Is there a bearing between each crank Span of bearings (Page 92, Section 2, par. 7 of Rules)

Distance between centres of main bearings Is a flywheel fitted Diameter of crank shaft journals

Diameter of crank pins Breadth of crank webs Thickness of ditto

Diameter of flywheel shaft Diameter of tunnel shaft Diameter of thrust shaft

Diameter of screw shaft Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made watertight in the propeller boss If the liner is in more than one length are the joints burned

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 If without liners, is the shaft arranged to run in oil

Type of outer gland fitted to stern tube Length of stern bush Diameter of propeller

Pitch of propeller No. of blades state whether moveable Total surface square feet

Method of reversing Is a governor or other arrangement fitted to prevent racing of the engine when declutched Thickness of cylinder liners

Are the cylinders fitted with safety valves Means of lubrication 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

No. of cooling water pumps Is the sea suction provided with an efficient strainer which can be cleared within the vessel

No. of bilge pumps fitted to the main engines Diameter of ditto Stroke

Can one be overhauled while the other is at work No. of auxiliary pumps connected to the main bilge lines How driven

Sizes of pumps No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room *2 1/2"*

and in holds, etc. *In pump room 2 1/2" Hold 2 1/2"* No. of ballast pumps How driven Sizes of pumps

Is the ballast pump fitted with a direct suction from the engine room bilges *Yes* State size *2"* Is a separate auxiliary pump suction fitted in Engine Room and size *Yes 2"*

Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine Room always accessible *Yes*

Are the sluices on Engine Room bulkheads always accessible *No* Are all connections with the sea direct on the skin of the ship *Yes*

Are they valves or cocks *both* Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates *Yes*

Are the discharge pipes 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 all pipes, cocks, valves and pumps in connection with the machinery accessible at all times *Yes* Are the bilge suction pipes, cocks and valves arranged so as to prevent any communication between the sea and the bilges *Yes*

Is the screw shaft tunnel watertight *Not fitted* Is it fitted with a watertight door

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

No. of main air compressors No. of stages Diameters Stroke Driven by

No. of auxiliary air compressors No. of stages Diameters Stroke Driven by

No. of small auxiliary air compressors No. of stages Diameters Stroke Driven by

No. of scavenging air pumps Diameter Stroke Driven by

Diameter of auxiliary Diesel Engine crank shafts Are the air compressors and their coolers made so as to be easy of access

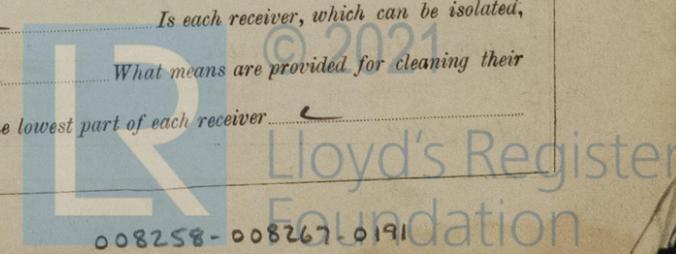
AIR RECEIVERS:—No. of high pressure air receivers Internal diameter Cubic capacity of each

Material Seamless, lap welded or riveted longitudinal joint Range of tensile strength

thickness working pressure by Rules No. of starting air receivers Internal diameter

Total cubic capacity Material Seamless, lap welded or riveted longitudinal joint

Range of tensile strength thickness Working pressure by rules Is each receiver, which can be isolated, fitted with a safety valve as per Rule What means are provided for cleaning their inner surfaces Can the internal surfaces of the receivers be examined Is there a drain arrangement fitted at the lowest part of each receiver



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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

SPARE GEAR Checked and found as per Amsterdam report and attached list.

Plan see letter 15.11.21 ✓

Only 2 one" valve valves are fitted to the oil fuel bunkers which are controlled from the deck. Air vessel has been submitted and tested by the Amsterdam Surveyors. ✓
The foregoing is a correct description.

Manufacturer.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits

1921. 5 July. August 10-18. Sept 30 & Nov 21. 22. 24
 4

Dates of Examination of principal parts—Cylinders ✓ Covers ✓ Pistons ✓ Rods ✓ Connecting rods ✓
 Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft ✓ Propeller ✓ Stern tube ✓ Engine seatings ✓
 Engines holding down bolts 30 Sept Completion of pumping arrangements 22-11-21 Engines tried under working conditions 22-11-21
 Completion of fitting sea connections 10-9-21 Stern tube 18-9-21 Screw shaft and propeller 18-9-21
 Material of crank shaft ✓ Identification Mark on Do. ✓ Material of thrust shaft ✓ Identification Mark on Do. ✓
 Material of tunnel shafts ✓ Identification Marks on Do. ✓ Material of screw shafts ✓ Identification Marks on Do. ✓

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 motor has been fitted in accordance with the Rules, Society's letters and approved plans, pumping arrangement fitted in accordance with Secretary's letters and approved plans, all requirements of Sect 49 of the Rules carried out, the whole tried under full working condition during a trial trip on the Northsea and found in order. In opinion of opinion that the vessel is fit to be recorded in the Society's Register Book with **L.M.C 11-21**

The amount of Entry Fee ... £ : :
 Special ... £ 72.00 : :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ 45.00 : :
 When applied for, 20.11.1921
 When received, 21.12.1921

J. G. Schoo
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. DEC. 9 1921

Assigned

+ L.M.C. 11.21
 oil engines.

CERTIFICATE WRITTEN.



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Lloyd's Register Foundation

Certificate (if required) to be sent to Amsterdam Surveyors

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