

REPORT ON OIL ENGINE MACHINERY.

11 APR 1927

Bel 9717
No. 29360

0 JAN 1927

Received at London Office

19 JAN 1927 Port of *Funderland*

g Report

When handed in at Local Office

Date, First Survey 17 *Mar*, '26 Last Survey 12 *Jan* 1927.
Number of Visits *95*

Single
Screw vessels
Triple

'PORT FREMANTLE'

Tons
Gross
Net

Belgit
By whom built *Workman Clark*
By whom made *Wm Duffell & Co Ltd*
By whom made *Eochran & Co Annan Ltd*
Boiler No. 9986 When made 1927
Port belonging to *London*

ilers made at *Annan*
140 8700
se Power *8000*

Power as per Rule *996* Is Refrigerating Machinery fitted for cargo purposes *Yes* Is Electric Light fitted *Yes*

INES, &c. Type of Engines *Inford Opposed Piston* 22 *13* See *Sld M 3/5/27*
are in cylinders *40 ATMOS* No. of cylinders *4 x (2)* Diameter of cylinders *580 1/2* No. of cranks *4 x 3* Length of stroke *2 x 160*
s, adjacent to the Crank, measured from inner edge to inner edge *1050 1/2 = 41 1/8* Is there a bearing between each crank *YES*
minute *95* Flywheel dia. *7' 9"* Weight *11 tons* Means of ignition *TEMP OF COMPRESSION* Kind of fuel used *CRUDE OIL 150°F*
dia. of journals as per Rule *430 1/2* Crank pin dia. *460 1/2* Crank Webs Mid. length breadth *850 1/2* Thickness parallel to axis *260 1/2*
as fitted *430 1/2* Mid. length thickness *260 1/2* Thickness around eye hole *190 1/2*
fts, diameter as per Rule *430 1/2* Intermediate Shafts, diameter as per Rule *430 1/2* Thrust Shaft, diameter at collars as per Rule
as fitted *430 1/2* as fitted *430 1/2* Is the { tube { shaft fitted with a continuous liner {
diameter as per Rule *430 1/2* Screw Shaft, diameter as per Rule *430 1/2*
as fitted *430 1/2* as fitted *430 1/2* Is the { tube { screw { shaft fitted with a continuous liner {
s, thickness in way of bushes as per Rule *430 1/2* Thickness between bushes as per rule *430 1/2* Is the after end of the liner made watertight in the

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

s 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

re fitted, is the shaft lapped or protected between the liners

Is an approved Oil Gland or other appliance fitted at the after

shaft Length of Bearing in Stern Bush next to and supporting propeller

16 = 6 Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet

versing Engines *COMPRESSED AIR* Is a governor or other arrangement fitted to prevent racing of the engine *when detached YES* Means of lubrication

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

material *YES BOTH* If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

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

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

ed to the Main Bilge Line { No. and Size How driven

os, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

dent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

ting size:—In Engine and Boiler Room

Power Pump Direct Suctions to the Engine Room Bilges, No. and size

ge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Space

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

unctions fitted direct on the skin of the ship Are they fitted with Valves or Cocks

iciently 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

d 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

through the bunkers How are they protected

through the deep tanks Have they been tested as per Rule

icks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

at 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

other Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

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

ressors, No. No. of stages Diameters Stroke Driven by

Compressors, No. No. of stages Diameters Stroke Driven by

y Air Compressors, No. No. of stages Diameters Stroke Driven by

Pumps, No. *1. PER. SET.* Diameter *1580 1/2 62"* Stroke *1040 1/2 41"* Driven by *Main engine*

ines crank shafts, diameter as per Rule *430 1/2* as fitted *430 1/2*

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

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

of arrangement fitted at the lowest part of each receiver

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

led or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

eeivers, No. Total cubic capacity Internal diameter thickness

led or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

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003549-003555-0128

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	PLAIN CYLINDRICAL FORM SOUNDNESS ASCERTAINED BY INSPECTION.				
COVERS	NONE				
JACKETS	3/10/26 11/11/26 24/11/26 28/10/26 16/11/26 29/11/26 5/10/26 22/11/26	4 LBS	30 LBS	J.H. 3/10/26 29/11/26	
PISTON WATER PASSAGES					
MAIN COMPRESSORS—1st STAGE					
2nd					
3rd					
AIR RECEIVERS—STARTING		600 LBS	800 LBS	made Belfast	
INJECTION					
AIR PIPES	30/10/26 4/11/26	600 LBS	1000 LBS	J.H. 30/10/26 4/11/26	
FUEL PIPES	26/11/26	8000 LBS	12000 LBS	J.H. 26/11/26	
FUEL PUMPS	7/12/26	8000 LBS	12000 LBS	J.H. 7/12/26	
SILENCER					
WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for Shafting YES
(If not, state date of approval)

ALSO SEE SEC. 1 LETTERS
13/10/26 11/11/26 FOR
SIGNS OF SHAFTING.

Separate Tanks.

Donkey Boilers

General Pumping Arrangements

Oil Fuel Burning Arrangements

199 eel Sh

SPARE GEAR 2 Cylinders, 2 Main Pistons, 32 Piston Rings, 1 Upper Piston Rod, 1 lower Piston Rod, 2 Centre Connecting
Rod end bearings with bolts & nuts, 1 Centre Connecting Rod Bottom end bearing with bolts & nuts, 1 side x head connecting
rod bottom end bearing with bolts & nuts, 1 main bearing with studs & nuts, 8 crankshaft coupling
wheels & 1 bevel wheel for camshaft drive, 8 fuel valves, 1 starting valve, 1 relief valve, 2 Scavange Pump
Valves & 6 discs, 2 Scavange Pump Section Valve guards & discs, 1 Fuel Pump Body complete. Set of Spare
Rubber rings, pipe unions, iron, assorted bolts & nuts &c

The foregoing is a correct description,

WILLIAM LOXFORD & SONS, Limited.

W. J. Kelly

Manufacturer.

Dates of Survey while building
work in shops-- 1926. 11. 29. 31. Oct. 12. 16. 23. 28. 30. May. 4. 5. 10. 14. 17. 26. 27. 28 June. 1. 11. 14. 17. 28. 29. July. 20. 23. Aug. 13. 24. 26. 31. Sep. 2. 9. 13. 14. 15. 21. 24. 27. 29. 30. Oct. 1. 4. 6. 8. 11. 12. 14. 21. 25. 27. 28. 29. Nov. 3. 4. 5. 8. 10. 11. 12. 15. 18. 19. 22. 23. 26. 27. 29. 30. Dec. 1. 2. 3. 4. 7. 8. 9. 13. 15. 18. 20. 21. 23. 24. 28. 29. 30. 31. 1927. Jan. 4. 5. 7. 10. 11. 12.
During erection on board vessel--
Total No. of visits 95

Dates of Examination of principal parts—Cylinders 1/6/26 Covers None Pistons 20/7/26 Rods 3/9/25 Connecting rods 27/9/25

Crank shaft 24/12/26 Flywheel shaft 8 Thrust shaft 24/12/26 Intermediate shafts Tube shaft

Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts

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

Crank shaft, Material 1. STEEL Identification Mark P 1391 JL Flywheel shaft, Material Identification Mark

FLYWHEEL 8 Identification Mark S 7026 MB Thrust shaft, Material 1. STEEL Identification Mark P 1790 JL Intermediate shafts, Material Identification Marks

Tube shaft, Material Identification Mark S 7288 MB Screw shaft, Material Identification Mark

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

Is this machinery duplicate of a previous case No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been built under Special Survey & the materials & workmanship are good. completion the machinery was tried in the shop under water brake test. The machinery is eligible in my opinion to have the record L.M.C. with date when satisfactorily fitted in the vessel.

This machinery has been efficiently fitted & tried out on board the vessel. In my opinion hereon is eligible for record - L.M.C. 4. 27 C.L.

R. Lee Amers.

The amount of Entry Fee ... £ 6-0-0

15 Belfast (26.8/-) Special 19 JAN. 1927

Donkey Boiler Fee ... £ 105 14

Travelling Expenses (if any) £

Committee's Minute

Assigned

TUES. 12 APR 1927

See Bel J.E. Apt 97/17

Harbottle

Engineer Surveyor to Lloyd's Register of Shipping.

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