

Rpt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No 44971

-9 SEP 1925

Received at London Office

Date of writing Report

19

When handed in at Local Office

5/9/25

Port of

Glasgow

No. in Survey held at
Reg. Book.

Glasgow

Date, First Survey

Last Survey 28-8-25 19

Number of Visits

on the ^{Single}
~~Twin~~
~~Triple~~

Screw vessels

M.V. CITY OF STOCKHOLM

Tons

Gross 5075

Net 3155

Master

Built at

Glasgow

By whom built

Bancroft & Co. Ltd. Yard No. 608

When built 1925

Engines made at

Glasgow

By whom made

North British Diesel Ltd.

Engine No. 35

When made 1925

Donkey Boilers made at

Aman

By whom made

Cochran & Co. Aman Ltd.

Boiler No. 9105

When made 1925

Brake Horse Power

2000

Owners

Ellerman Line Ltd.

Port belonging to

Liverpool

Nom. Horse Power as per Rule

626

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

OIL ENGINES, &c.

Type of Engines

2 S.C.D.A.

Hiding & Linder Diesel

2 or 4 stroke cycle

2 Single or double acting

double

Maximum pressure in cylinders

450 lbs.

No. of cylinders

3

No. of cranks

3

Diameter of cylinders

24 1/2"

Length of stroke

44

Revolutions per minute

85/100

Means of ignition

Compression

Kind of fuel used

Heavy oil

Is there a bearing between each crank

Yes

Span of bearings (Page 92, Section 2, par. 7 of Rules)

38.5

Distance between centres of main bearings

63.5

Is a flywheel fitted

No

Diameter of crank shaft journals

as per Rule

as fitted 16 3/4"

Diameter of crank pins

16 1/2"

Breadth of crank webs

as per Rule

as fitted 30.5

Thickness of ditto

as per Rule

as fitted 10 1/4"

Diameter of flywheel shaft

as per Rule

as fitted none

Diameter of tunnel shaft

as per Rule

as fitted 12 1/2"

Diameter of thrust shaft

as per Rule

as fitted 14 3/4"

Diameter of screw shaft

as per Rule

as fitted 14

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

Yes

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 joints burned

No

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

Yes

If two liners are fitted, is the shaft lapped or protected between the liners

No

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

No

Diameter of outer gland fitted to stern tube

none

Length of stern bush

4'-7"

Diameter of propeller

15'-9"

Diameter of propeller

13'-6"

No. of blades

4

State whether moveable

Yes

Total surface

85

square feet

Is a governor or other arrangement fitted to prevent racing of the engine when declutched

Yes

Thickness of cylinder liners

1.9"

Are the cylinders fitted with safety valves

Yes

Means of lubrication

forced sight

Are the exhaust pipes and silencers water cooled or lagged with

conducting material

Yes

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

Cahamat

Is the bilge pump fitted to the main engines

No

No. of cooling water pumps

2

Is the sea suction provided with an efficient strainer which can be cleared

Is the bilge pump fitted to the main engines

No

No. of auxiliary pumps connected to the main bilge lines

2

How driven

Steam

No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps

In engine room

No. of ballast pumps

one

How driven

Steam

Sizes of pumps

8'-10'-10'

Is a separate auxiliary pump suction fitted in

No

Are all the bilge suction pipes fitted with roses

Yes

Are the roses in Engine Room always accessible

Are the bilge suction pipes, cocks and valves arranged so as to prevent any

No

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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					
COVERS	7.8.24 to 15.9.24		30 lbs.	H.C. J.D.B.	
JACKETS	3.9.24 to 12.9.24		30 lbs.	H.C. J.	
PISTON WATER PASSAGES	31.7.24 to 11.8.24		30 lbs.	H.C. J.D.B.	
MAIN COMPRESSORS—1st STAGE	14.7.24 to 11.8.24		550 lbs.	D.C.B.	1 st & 2 nd stage line in one casting
2nd			30 lbs.	H.C. J.	
3rd	1.5.24 to 28.5.24		2000 lbs.	H.C. J.	
AIR RECEIVERS—STARTING	25.9.24	475	675	H.C. J.	
INJECTION	28.1.25	1000	2000	A.C.	
AIR PIPES	28.1.25 to 5.5.25	475	950	A.D.M.	
FUEL PIPES	26.1.25 to 30.1.25		30	A.D.M.	
FUEL PUMPS					
SILENCER					
WATER JACKET					
SEPARATE FUEL TANKS	21.1.25 to 5.2.25		10 lbs.	A.D.M.	

PLANS. Are approved plans forwarded herewith for shafting

19.4.24

Receivers

23.4.24

Separate Tanks

22.10.24

SPARE GEAR

All as per rule requirements

The foregoing is a correct description

NORTH BRITISH STEEL ENGINE WORKS (1922) LTD.

Manufacturer.

J. MacLagan Chief Draughtsman.

Dates of Survey while building	During progress of work in shops --	1923. Nov. 19. 20. 1924. Jan. 10. 15. 29. Feb. 4. 19. 26. Mar. 10. 24. Apr. 1. 7. 15. 29. May 1. 7. 12. 25. 28. June 2. 9. 16. 23. 30. 1925. Jan. 15. 22. 29. Feb. 5. 12. 19. 26. Mar. 5. 12. 19. 26. Apr. 5. 12. 19. 26. May 5. 12. 19. 26. June 5. 12. 19. 26. July 5. 12. 19. 26. Aug. 5. 12. 19. 26. Sept. 5. 12. 19. 26. Oct. 5. 12. 19. 26. Nov. 5. 12. 19. 26. Dec. 5. 12. 19. 26.
	During erection on board vessel --	1923. Jan. 15. 22. 29. Feb. 5. 12. 19. 26. Mar. 5. 12. 19. 26. Apr. 5. 12. 19. 26. May 5. 12. 19. 26. June 5. 12. 19. 26. July 5. 12. 19. 26. Aug. 5. 12. 19. 26. Sept. 5. 12. 19. 26. Oct. 5. 12. 19. 26. Nov. 5. 12. 19. 26. Dec. 5. 12. 19. 26.
	Total No. of visits	96

Dates of Examination of principal parts—Cylinders 12.9.24 Covers 25.9.24 Pistons 31.7.24 Rods Connecting rods 22.9.24

Crank shaft 12.5.24 Thrust shaft 12.5.24 Tunnel shafts 3.11.24 Screw shaft 31.12.24 Propeller 13.11.24 Stern tube 13.11.24 Engine seatings 26.12.24

Engines holding down bolts 13.5.25 Completion of pumping arrangements 18.5.25 Engines tried under working conditions 20.5.25

Completion of fitting sea connections 21.1.25 Stern tube 26.12.24 Screw shaft and propeller 16.1.25

Material of crank shaft steel Identification Mark on Do. LLOYDS N° 281 H.C. J. 12.5.24

Material of tunnel shafts steel Identification Marks on Do. LLOYDS N° 281 A.D.M. 23.1.25

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

Is this machinery duplicate of a previous case yes If so, state name of vessel M.V. "SWANLEY"

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery has been constructed

under Special Survey in accordance with the Rules and approved plans; the materials and workmanship are good. The machinery has been satisfactorily fitted on board the vessel, examined under full working conditions and found satisfactory and is eligible in my opinion to have the record of + L.M.C 8.25 in the Register Book.

The amount of Entry Fee ...	£ 6 : 0	When applied for,
Special ...	£ 106 : 6	7.9.25
Donkey Boiler Fee ...	£	When received,
Travelling Expenses (if any) £		10.9.25

Committee's Minute GLASGOW 8-SEP-1925

Assigned + L.M.C 8.25

CERTIFICATE WRITTEN 17/9/25 dated 9.9.25



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