

REPORT ON OIL ENGINE MACHINERY.

No 45289

13 JAN 1926

Received at London Office

Date of writing Report

When handed in at Local Office

30.12.1925 Port of GLASGOW

No. in Survey held at GLASGOW

Date, First Survey

Last Survey 29th Dec 1925

Reg. Book.

Number of Visits

on the ^{Single} _{Twin} _{Triple} Screw vessel "MYRTLEBANK"

Tons { Gross 5150
Net 3150

Master Built at GLASGOW By whom built HARLAND & WOLFF LTD Yard No. 6839 When built 1925

Engines made at GLASGOW By whom made HARLAND & WOLFF LTD Engine No. 688 When made 1925

Donkey Boilers made at BELFAST By whom made HARLAND & WOLFF LTD Boiler No. CERT. When made 1925

Brake Horse Power 2300 Owners MESSRS ANDREW WEIR & CO. (BANK LINE LTD) Port belonging to GLASGOW

nom. Horse Power as per Rule 7677 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES

L ENGINES, &c.—Type of Engines DIESEL 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 500 LBS/SQ IN No. of cylinders 12 No. of cranks 12 Diameter of cylinders 630 M/M

Length of stroke 960 M/M Revolutions per minute 125 Means of ignition COMPRESSION Kind of fuel used ABOVE 150°F

Is there a bearing between each crank YES Span of bearings (Page 92, Section 2, par. 7 of Rules) 872 M/M

Distance between centres of main bearings 1300 M/M Is a flywheel fitted YES Diameter of crank shaft journals as per Rule 376 M/M as fitted 384 M/M

Diameter of crank pins 384 M/M METAL ROUND as per Rule 165 M/M Breadth of crank webs as fitted 175 M/M Thickness of ditto as per Rule 235 M/M as fitted 250 M/M

Diameter of flywheel shaft as per Rule 376 M/M as fitted 384 M/M Diameter of tunnel shaft as per Rule 9 3/4" as fitted 10" Diameter of thrust shaft as per Rule 10 1/2" as fitted 11 1/8"

Diameter of screw shaft as per Rule 10 3/4" as fitted 11" 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

Does the liner do 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

Are two liners 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 WOOD LINED, NO O.G. Length of stern bush 50" Diameter of propeller 11-9"

Pitch of propeller 9-9 to 11-3 SET 11-3 No. of blades 3 EACH state whether moveable YES Total surface 84 square feet TOP 50 M/M BOT 35 M/M

Method of reversing COMPRESSED AIR Is a governor or other arrangement fitted to prevent racing of the engine when disengaged YES Thickness of cylinder liners 80 3/32 M/M

Are the cylinders fitted with safety valves YES Means of lubrication FORCED & SIGHT FEED Are the exhaust pipes and silencers water cooled & lagged with non-conducting material YES

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

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

within the vessel YES No. of bilge pumps fitted to the main engines NONE Diameter of ditto Stroke

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

Sizes of pumps CIRCULATING 4 1/2 CENT'S BALLAST 9" x 9" NO STROKE BILGE 6" x 6" No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room 3 @ 3 1/2" @ 2 1/2" IN TUNNEL

Installed in holds, etc. 4 @ 2 1/2" COFFERDAMS, 2 @ 2 1/2", 3 @ 3", 4 @ 3 1/2" HOLES No. of ballast pumps ONE How driven ELECTRIC MOTOR Sizes of pumps 9" x 9" x 10"

Is the ballast pump fitted with a direct suction from the engine room bilges YES State size 5" DIA. Is a separate auxiliary pump suction fitted in engine room and size CIRC 5" ON BILGE MAIN

Are all the bilge suction pipes fitted with roses YES OR TAIL PIPES Are the roses in Engine Room always accessible YES

Are the sluices on Engine Room bulkheads always accessible 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 & BELOW 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 YES Is it fitted with a watertight door YES

Is the work done from SHELTER DECK 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 TWO (65 KG/CM²) No. of stages 3 Diameters 600 x 540 x 145 M/M Stroke 350 M/M Driven by MAIN ENGINE

No. of auxiliary air compressors ONE (25 KG/CM²) No. of stages 2 Diameters 400 x 350 M/M Stroke 260 M/M Driven by ELECTRIC MOTOR

No. of small auxiliary air compressors ONE (65 KG/CM²) No. of stages 2 Diameters 106 x 34 M/M Stroke 80 M/M Driven by STEAM CYLINDER

No. of scavenging air pumps Diameter Stroke Driven by

Diameter of auxiliary Diesel Engine crank shafts as per Rule 167 M/M as fitted 170 M/M Are the air compressors and their coolers made so as to be easy of access YES

R RECEIVERS:—No of high pressure air receivers 7 Internal diameter 295 M/M Cubic capacity of each 2 @ 88 " 5 @ 150 LITRES EACH

Material SOLID DRAWN STEEL Seamless, lap welded or riveted longitudinal joint SEAMLESS Range of tensile strength 28/32 TONS

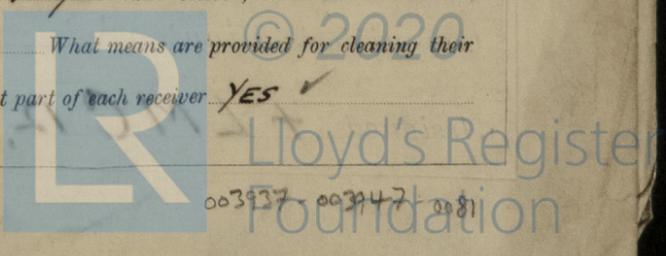
Thickness 59" working pressure, by Rules 1400 LBS/SQ IN No. of starting air receivers 2 Internal diameter 6'-0 3/8"

Stat cubic capacity 1076 CU/FT. Material STEEL Seamless, lap welded or riveted longitudinal joint T.R.D.B.S.

Range of tensile strength SHELL 28/32 TONS thickness ENDS 1 3/32" 1 9/32" Working pressure by rules ENDS 360.7 LBS/SQ IN Is each receiver, which can be isolated,

fitted with a safety valve as per Rule ONE ON COMMON PIPE Can the internal surfaces of the receivers be examined YES What means are provided for cleaning their

inner surfaces LOOSE ENDS & MANHOLE DOORS Is there a drain arrangement fitted at the lowest part of each receiver YES



003937 003947 0081

IS A DONKEY BOILER FITTED? **YES**

If so, is a report now forwarded? **YES BELFAST N° 9442**

HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	✓	✓	✓	✓	
COVERS	7-9-25 & 8-9-25	15 LBS/SQ	50 LBS/SQ	AMMB	
JACKETS	4-9-25 to 18-9-25	15 LBS/SQ	50 LBS/SQ	AMMB	
PISTON WATER PASSAGES	21-8-25 to 24-8-25	15 LBS/SQ	50 LBS/SQ	AMMB I.F.E.N.	
MAIN COMPRESSORS—1st STAGE	L.P. 6-10-25 to 12-10-25	71 LBS/SQ	150 LBS/SQ	AMMB	
2nd	M.P. 7-10-25 to 14-10-25	220 LBS/SQ	500 LBS/SQ	AMMB	
3rd	H.P. 6-10-25 to 7-10-25	1000 LBS/SQ	2000 LBS/SQ	AMMB	
AIR RECEIVERS—STARTING	24-9-25	356 LBS/SQ	585 LBS/SQ	W.B.	BELFAST REPORT N° 9436
INJECTION	5-10-25 & 2-11-25	1000 LBS/SQ	2000 LBS/SQ	AMMB	A.V. N° 789/0/1/2/3/4/5.
AIR PIPES ETC. STARTING	24-9-25 to 15-12-25	356 LBS/SQ	712 LBS/SQ	AMMB	
FUEL PIPES FILLING & SECTIONS	10-12-25	✓	30 LBS/SQ	✓	
FUEL PUMPS	✓	✓	✓	✓	
SILENCER	✓	✓	✓	✓	
WATER JACKET	✓	✓	✓	✓	
SEPARATE FUEL TANKS	22-10-25	✓	10 LBS/SQ	AMMB	

PLANS. Are approved plans forwarded herewith for shafting sent with M/S INVERBANK Receivers 9-10
(If not, state date of approval) Approved 18/5/23

Separate Tanks STANDARD.

SPARE GEAR

Supplied as per attached list.

The foregoing is a correct description,

For HARLAND & WOLFF, LTD.

J. C. Green

Manufacturer.

Dates of Survey while building

During progress of work in shops - 1925. June 10. 12. 15. 17. 18. 21. 24. Aug. 21. 24. 31. Sept 1. 4. 7. 8. 10. 11. 14. 15. 16. 17. 18. 22. 24. 25. 30.

During erection on board vessel - Oct 5. 6. 7. 8. 9. 12. 13. 14. 15. 16. 20. 22. 23. 28. 30. Nov 2. 4. 10. Dec 4. 7. 10. 15. 22. 29.

Total No. of visits 49.

Dates of Examination of principal parts—Cylinder 7/18/25 Covers 7/18/25 Pistons 21/24/25 Rods 1/9/25 Connecting rods 18/9/25

Crank shaft 5/15/25 Thrust shaft 22/9/25 Tunnel shafts 30/9/25 Screw shaft 4/9/25 to 7/9/25 Propeller 18/9/25 Stern tube 18/9/25 Engine seatings 10/122/25

Engines holding down bolts 4/7/25 Completion of pumping arrangements 22/2/25 Engines tried under working conditions 29/12/25

Completion of fitting sea connections 28/10/25 Stern tubes 14/20/10/25 Screw shaft and propeller 22/10/25

Material of crank shaft STEEL Identification Mark on Do. N. 683 P. 7/9/25 H.M.C. Material of thrust shafts STEEL Identification Mark on Do. 101 S.F.O. 7/12/25 S.F.O. 14/7/25

Material of tunnel shafts STEEL Identification Marks on Do. SEE UNDER Material of screw shafts STEEL Identification Marks on Do. 3303 3354 3355 3356 3357 3358 3359 3360 3361 3362 3363 3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382 3383 3384 3385 3386 3387 3388 3389 3390 3391 3392 3393 3394 3395 3396 3397 3398 3399 3400 3401 3402 3403 3404 3405 3406 3407 3408 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420 3421 3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432 3433 3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446 3447 3448 3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464 3465 3466 3467 3468 3469 3470 3471 3472 3473 3474 3475 3476 3477 3478 3479 3480 3481 3482 3483 3484 3485 3486 3487 3488 3489 3490 3491 3492 3493 3494 3495 3496 3497 3498 3499 3500

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/S INVERBANK**

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

TUNNEL SHAFTS:—

PORT	3490 LLOYDS 7425 S.F.O. 17/7/25	N°1	3405 LLOYDS 107 S.F.O. 7/7/25	N°2	3384 LLOYDS 113 S.F.O. 10/7/25	N°3	3427 LLOYDS 126 S.F.O. 17/7/25	N°4	3465 LLOYDS 145 S.F.O. 24/7/25	N°5	3488 LLOYDS 1723 S.F.O. 17/7/25	N°6
STARBOARD	3489 LLOYDS 146 S.F.O. 27/7/25		3363 LLOYDS 125 S.F.O. 14/7/25		3385 LLOYDS 846 T.N. 26/6/25		3426 LLOYDS 114 S.F.O. 10/7/25		3497 LLOYDS 885 T.N. 11/7/25		3487 LLOYDS 116 S.F.O. 10/7/25	

This machinery has been constructed under special survey in accordance with the rules and approved plans. The materials and workmanship are sound and good, it has been fitted on board the vessel in an efficient manner, tried under full power working condition and everything found satisfactory and is in my opinion eligible to be classed with record of L.M.C. 12-25

The amount of Entry Fee ... £ 6 : 0 :
Special ... £ 110 : 16/ :
Donkey Boiler Fee ... £ ✓ : :
Travelling Expenses (if any) £ ✓ : :

When applied for... 8.1.26.
When received... 21.1.26.

A. M. Cruick.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 12 JAN 1926

FRI. 22 JAN 1926

Assigned + LMC 12.25

CERTIFICATE WRITTEN 10/2/26



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Certificate (if required) to be sent to Glasgow.

30/12/25