





IS A DONKEY BOILER FITTED? *yes 2 off* If so, is a report now forwarded? *yes*

Is the donkey boiler intended to be used for domestic purposes only *also for steaming gear, windlass & other extensive purposes.*

PLANS. Are approved plans forwarded herewith for Steaming *yes* Receivers *yes* Separate Fuel Tanks *yes*

*(If not, state date of approval)* *9/2/38*

Donkey Boilers *3/6 JS* General Pumping Arrangements *yes* Pumping Arrangements in Machinery Space *3/6 JS*

Oil Fuel Burning Arrangements *yes*

Has the spare gear required by the Rules been supplied *yes* ✓  
 State the principal additional spare gear supplied  
 1 cylinder complete, 1 cylind. liner & water jacket, 7 exhaust valves complete, 1 inlet valve complete, 1 starting valve complete, 8 fuel valves complete, 1 piston complete, 1 piston rod, 1 complete crank pin bearing, 1/2 main bearing brasses, 1 propeller shaft complete.

AKTIESELSKABET BURMEISTER & WAINZ HANSER & SOHN BREITENBURGER		Manufacturer.	
Dates of Survey while building	During progress of work in shops -- During erection on board vessel -- Total No. of visits	1/3 7/3 11/3 18/3 25/3 22/4 3/5 2/5 7/6 15/6 18/6 22/6 29/6 12/7 18/7 19/7 27/7 1/8 5/8 12/8 16/8 17/8 18/8 19/8 20/8 22/8 2/8 25/8 11/8 3/9 19/9 23/9 4/10 5/10 12/10 14/10 21/10 25/10 9/11 15/11 27/9 11/10 17/10 29/10 7/11 11/11 18/11 23/11 1/12 8/12 16/12 17/12 19/12 21/12 19/12	
Dates of Examination of principal parts—Cylinders	Crank shaft Flywheel shaft Thrust shaft Intermediate shafts Tube shaft	13/8 14/8 15/8 22/8 24/8 3/9 18/9 23/9 27/9 28/9 30/9 1/10 2/10 3/10 4/10 5/10 6/10 7/10 8/10 9/10 10/10 11/10 12/10 13/10 14/10 15/10 16/10 17/10 18/10 19/10 20/10 21/10 22/10 23/10 24/10 25/10 26/10 27/10 28/10 29/10 30/10 1/11 2/11 3/11 4/11 5/11 6/11 7/11 8/11 9/11 10/11 11/11 12/11 13/11 14/11 15/11 16/11 17/11 18/11 19/11 20/11 21/11 22/11 23/11 24/11 25/11 26/11 27/11 28/11 29/11 30/11 1/12 2/12 3/12 4/12 5/12 6/12 7/12 8/12 9/12 10/12 11/12 12/12 13/12 14/12 15/12 16/12 17/12 18/12 19/12 20/12 21/12 22/12 23/12 24/12 25/12 26/12 27/12 28/12 29/12 30/12 1/13 2/13 3/13 4/13 5/13 6/13 7/13 8/13 9/13 10/13 11/13 12/13 13/13 14/13 15/13 16/13 17/13 18/13 19/13 20/13 21/13 22/13 23/13 24/13 25/13 26/13 27/13 28/13 29/13 30/13 1/14 2/14 3/14 4/14 5/14 6/14 7/14 8/14 9/14 10/14 11/14 12/14 13/14 14/14 15/14 16/14 17/14 18/14 19/14 20/14 21/14 22/14 23/14 24/14 25/14 26/14 27/14 28/14 29/14 30/14 1/15 2/15 3/15 4/15 5/15 6/15 7/15 8/15 9/15 10/15 11/15 12/15 13/15 14/15 15/15 16/15 17/15 18/15 19/15 20/15 21/15 22/15 23/15 24/15 25/15 26/15 27/15 28/15 29/15 30/15 1/16 2/16 3/16 4/16 5/16 6/16 7/16 8/16 9/16 10/16 11/16 12/16 13/16 14/16 15/16 16/16 17/16 18/16 19/16 20/16 21/16 22/16 23/16 24/16 25/16 26/16 27/16 28/16 29/16 30/16 1/17 2/17 3/17 4/17 5/17 6/17 7/17 8/17 9/17 10/17 11/17 12/17 13/17 14/17 15/17 16/17 17/17 18/17 19/17 20/17 21/17 22/17 23/17 24/17 25/17 26/17 27/17 28/17 29/17 30/17 1/18 2/18 3/18 4/18 5/18 6/18 7/18 8/18 9/18 10/18 11/18 12/18 13/18 14/18 15/18 16/18 17/18 18/18 19/18 20/18 21/18 22/18 23/18 24/18 25/18 26/18 27/18 28/18 29/18 30/18 1/19 2/19 3/19 4/19 5/19 6/19 7/19 8/19 9/19 10/19 11/19 12/19 13/19 14/19 15/19 16/19 17/19 18/19 19/19 20/19 21/19 22/19 23/19 24/19 25/19 26/19 27/19 28/19 29/19 30/19 1/20 2/20 3/20 4/20 5/20 6/20 7/20 8/20 9/20 10/20 11/20 12/20 13/20 14/20 15/20 16/20 17/20 18/20 19/20 20/20 21/20 22/20 23/20 24/20 25/20 26/20 27/20 28/20 29/20 30/20 1/21 2/21 3/21 4/21 5/21 6/21 7/21 8/21 9/21 10/21 11/21 12/21 13/21 14/21 15/21 16/21 17/21 18/21 19/21 20/21 21/21 22/21 23/21 24/21 25/21 26/21 27/21 28/21 29/21 30/21 1/22 2/22 3/22 4/22 5/22 6/22 7/22 8/22 9/22 10/22 11/22 12/22 13/22 14/22 15/22 16/22 17/22 18/22 19/22 20/22 21/22 22/22 23/22 24/22 25/22 26/22 27/22 28/22 29/22 30/22 1/23 2/23 3/23 4/23 5/23 6/23 7/23 8/23 9/23 10/23 11/23 12/23 13/23 14/23 15/23 16/23 17/23 18/23 19/23 20/23 21/23 22/23 23/23 24/23 25/23 26/23 27/23 28/23 29/23 30/23 1/24 2/24 3/24 4/24 5/24 6/24 7/24 8/24 9/24 10/24 11/24 12/24 13/24 14/24 15/24 16/24 17/24 18/24 19/24 20/24 21/24 22/24 23/24 24/24 25/24 26/24 27/24 28/24 29/24 30/24 1/25 2/25 3/25 4/25 5/25 6/25 7/25 8/25 9/25 10/25 11/25 12/25 13/25 14/25 15/25 16/25 17/25 18/25 19/25 20/25 21/25 22/25 23/25 24/25 25/25 26/25 27/25 28/25 29/25 30/25 1/26 2/26 3/26 4/26 5/26 6/26 7/26 8/26 9/26 10/26 11/26 12/26 13/26 14/26 15/26 16/26 17/26 18/26 19/26 20/26 21/26 22/26 23/26 24/26 25/26 26/26 27/26 28/26 29/26 30/26 1/27 2/27 3/27 4/27 5/27 6/27 7/27 8/27 9/27 10/27 11/27 12/27 13/27 14/27 15/27 16/27 17/27 18/27 19/27 20/27 21/27 22/27 23/27 24/27 25/27 26/27 27/27 28/27 29/27 30/27 1/28 2/28 3/28 4/28 5/28 6/28 7/28 8/28 9/28 10/28 11/28 12/28 13/28 14/28 15/28 16/28 17/28 18/28 19/28 20/28 21/28 22/28 23/28 24/28 25/28 26/28 27/28 28/28 29/28 30/28 1/29 2/29 3/29 4/29 5/29 6/29 7/29 8/29 9/29 10/29 11/29 12/29 13/29 14/29 15/29 16/29 17/29 18/29 19/29 20/29 21/29 22/29 23/29 24/29 25/29 26/29 27/29 28/29 29/29 30/29 1/30 2/30 3/30 4/30 5/30 6/30 7/30 8/30 9/30 10/30 11/30 12/30 13/30 14/30 15/30 16/30 17/30 18/3	

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

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with yes

Is the vessel (~~and~~ being an oil tanker) fitted for carrying oil as cargo yes. If so, have the requirements of the Rules been complied with yes

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with \_\_\_\_\_

Is this machinery duplicate of a previous case yes. If so, state name of vessel 7<sup>th</sup> "Hikleshad" year 1972

*General Remarks* (State quality of workmanship, opinions as to class, etc.)

This machinery has been constructed and fitted under special survey and in accordance with the Society's Rules, the approved plans and the requirements contained in the Society's letter E dated 7/4 1937, 26/11/37, 10/12/37, 30/3/38, 7/4/38, 12/6/38, 17/4 1938. The material has been examined and tested as per Rules, either by the undersigned or as per certificates produced, and found good, and the workmanship is of good description throughout. On completion the whole of the main & auxiliary machinery, including the shaft driven pump and cargo oil pumping arrangement, was tested under working conditions and found to work satisfactorily, and on the final trial trip the manoeuvring of the main engine was tested and found good. Max. speed 14.6 kn. ~ 4500 rpm ~ 107 knots. Recommend the machinery to have addition of **+LMC 12-38** OIL ENGINES, C.L.

The amount of Entry Fee ... 14/34.40 : When applied for, 6.1.1939.

Special ... £2320.64 : 74.08

1 START AIR RECEIVER - - - 74.08 : When received, 18.5.50

TIME Donkey Boilers Fee ... £300.00 : 19.7.51

Travelling Expenses (if any) £372.50

LATE FEE - - 30.00

Committee's Minute **FRI 13 JAN 1939**

Assigned + Lmc 12.38 CL Orl Eng

20B 180 lb

Rpt. 9a.  
Port of *Copenhagen* Continuation of Report No. 10769 dated 27-12-1938 on the  
Sings. Sc. Motor Tanker "LUCELLUM" of Liverpool.

List of Auxiliary Machinery.

The steam plant comprises:

2 horizontal, multitubular donkey boilers, fitted both for oil fire & exhaust gas firing. Total H.S. for oil firing 3249 sq. ft. and for gas firing 1256 sq. ft. W.P. = 180 lbs. per sq. in., supplying steam for the following purposes:

2 vertical feed pumps, 19" x 14" x 380 mm, simplex.

1 fan for forced draught, 1 evaporator, 1 economizer.

2 oil burning units, (1 off complete with pump, preheater, 2 double filters and hand pump for starting up, and 1 off with pump and preheater only.)

1 ballast pump, 23" x 26" x 250 mm, duplex.

1 bilge pump, 15" x 15" x 150 mm, duplex.

1 sanitary pump, 15" x 15" x 150 mm, duplex.

1 Diesel oil feed transfer pump, 15" x 15" x 150 mm, duplex.

1 boiler oil feed transfer pump, 11.5" x 10" x 100 mm, duplex.

1 hand-ly lubricating oil pump, 19" x 20" x 250 mm, duplex.

1 fresh water (sanitary) pump, 9" x 6" x 90 mm, duplex.

2 manoeuvring air compressors, 2 stages, 2.8 cu ft per minute.

1 1-cyl.  $NH_3$  compressor for provision stores.

1 air pump for condensers, 7" x 12" x 12", simplex.

1 cargo oil pump, 18" x 14" x 18" duplex } in each of the

1 " " " 15" x 20" x 150 mm " } two pump rooms.

1 ballast pump, 15" x 15" x 150 mm duplex } in the fore hold

1 oil feed transfer pump, 15" x 15" x 150 mm duplex } pump room.

1 2-cylinder steering gear, 1 windlass, 2 cargo winches at warping winches.

and steam for the heating coils in the oil holds, in the boiler oil feed settling tanks, in one of the Diesel oil feed settling tanks and around the injection pipes in the oil feed, deep tanks, and for heating accommodation.

The electric plant comprises:

2 steam driven 16 kwh. generators, 110 V. 146 amp. 600 R/H, and  
1 emergency light generator, 7 kwh, 110 V. 63.5 a. 1200 R/H, driven  
by a 1-cyl. 45 C.S.A. BUCKH oil engine, giving current for the following purposes:

3 of 3.5 HP electric motors for oil purification.  
1 " 8 " " " " engine turning gear.  
1 " 4 " " " " workshop.  
1 " 1.6 RWT " " " wireless telegraph.  
and current for the electric light installation.

The cooling water pump, lubricating oil pump, large & secondary pumps for  
the ordinary working at sea are all driven by the main engine through chains  
from the intermediate shaft.

THE ABOVE IS A CORRECT DESCRIPTION.

ODENSE STÅLSKIBSVÆRFT  
VED A. P. MØLLER  
[Signature]

5m, 838, 7 (MADE IN ENGLAND.)