

# REPORT ON OIL ENGINE MACHINERY.

No. 6948

Received at London Office

15 JAN 1925

Writing Report 8/1/1926 When handed in at Local Office

12/1/26 Port of Trieste

Survey held at SPLIT

Date, First Survey 14/8/1924

Last Survey Trieste Dec 10 1925

33 on the Triples

SAIL POWER WITH AUX. MOT. SAVA ex JELVA

Number of Visits Trieste (2)

Tons Gross 147.61 Net 105.23

at STADSKANAL

By whom built W. MULDER

Yard No. — When built 1914

at BERLIN-MARIENFELDE

By whom made DAIMLER MOTOREN - CES.

Engine No. — When made 1914

ers made at —

By whom made —

Boiler No. — When made —

Power —

Owners BETON GRAD. J.J.

Port belonging to SPLIT

Power as per Rule 36

Is Refrigerating Machinery fitted for cargo purposes —

Is Electric Light fitted —

Types of Engines

DIESEL-DAIMLER MOT. 2 or 4 stroke cycle 4

Single or double acting SINGLE

No. of cylinders 544

No. of cylinders 6

Diameter of cylinders 7 7/8"

No. of cranks 6

Length of stroke 10 6/8"

Distance between adjacent to the Crank, measured from inner edge to inner edge 20.47"

SEE SH. PLAN. Is there a bearing between each crank EVERY 12° CRANK.

Weight 1082 TON.

Means of ignition COMP.

Kind of fuel used DIESEL OIL

as per Rule 4.42"

as fitted 4.84"

Crank pin dia. 4.84"

Crank Webs

Mid. length breadth 6"

Mid. length thickness 3.7/3.85"

Thickness parallel to axis SOLID.

Thickness around eye-hole

as per Rule NONE

as fitted NONE

Intermediate Shafts, diameter

as per Rule NONE

as fitted NONE

Thrust Shaft, diameter at collars

as per Rule 4.16"

as fitted 3.54"

as per Rule NONE

as fitted NONE

Screw Shaft, diameter

as per Rule 3.74"

as fitted 3.74"

Is the tube screw shaft fitted with a continuous liner

WITH BUT LINDER

Thickness in way of bushes

as per Rule

as fitted

Thickness between bushes

as per rule

as fitted

Is the after end of the liner made watertight in the

as per Rule

as fitted

as per rule

as fitted

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

as per Rule

as fitted

as per rule

as fitted

Do they 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

as per Rule

as fitted

as per rule

as fitted

Is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after

as per Rule

as fitted

as per rule

as fitted

Length of Bearing in Stern Bush next to and supporting propeller 13"

as per Rule

as fitted

as per rule

as fitted

Pitch 13.4" No. of blades 3 Material BRASSES whether Moveable No Total Developed Surface sq. feet

as per Rule

as fitted

as per rule

as fitted

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

as per Rule

as fitted

as per rule

as fitted

Thickness of cylinder liners .43" Are the cylinders fitted with safety valves YES Are the exhaust pipes and silencers water cooled or lagged with

as per Rule

as fitted

as per rule

as fitted

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

as per Rule

as fitted

as per rule

as fitted

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

as per Rule

as fitted

as per rule

as fitted

No. and size ONE 3.7" How driven FROM MAIN ENGINE.

as per Rule

as fitted

as per rule

as fitted

Lubricating Oil Pumps, including Spare Pump, No. and size ONE: DIAM. 1.53" STR. 1"

as per Rule

as fitted

as per rule

as fitted

means arranged for circulating water through the Oil Cooler No Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

as per Rule

as fitted

as per rule

as fitted

ONE DIAM. 3.7" AND ONE HAND PUMP DIAM. 2 1/2"

as per Rule

as fitted

as per rule

as fitted

ONE DIAM. 3.7" AND ONE HAND PUMP DIAM. 2 1/2"

as per Rule

as fitted

as per rule

as fitted

Direct Suctions to the Engine Room Bilges, No. and size NONE

as per Rule

as fitted

as per rule

as fitted

Are the Bilge Suctions in the Machinery Space

as per Rule

as fitted

as per rule

as fitted

Are they fitted with Valves or Cocks VALVES

as per Rule

as fitted

as per rule

as fitted

Are the Overboard Discharges above or below the deep water line ABOVE

as per Rule

as fitted

as per rule

as fitted

Are the Blow Off Cocks fitted with a spigot and brass covering plate

as per Rule

as fitted

as per rule

as fitted

How are they protected

as per Rule

as fitted

as per rule

as fitted

Have they been tested as per Rule

as per Rule

as fitted

as per rule

as fitted

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

as per Rule

as fitted

as per rule

as fitted

Are 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

as per Rule

as fitted

as per rule

as fitted

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

as per Rule

as fitted

as per rule

as fitted

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

as per Rule

as fitted

as per rule

as fitted

No. of stages TWO Diameters 3.13"/4.8" Stroke 5.9" Driven by MAIN ENGINE.

as per Rule

as fitted

as per rule

as fitted

Compressors, No. NONE No. of stages Diameters Stroke Driven by

as per Rule

as fitted

as per rule

as fitted

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as per Rule

as fitted

IS A DONKEY BOILER FITTED? *No.*  
 HYDRAULIC TESTS.—

If so, is a report now forwarded?

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	6/12/1925	514 lbs.	1028 lbs.		TEST MADE BY THE MANUFACTURER
COVERS	6/12/1925	514 lbs.	1028 lbs.		100 ATM.
JACKETS	6/12/1925	21 lbs.	60 lbs.		100 ATM.
PISTON WATER PASSAGES					7 ATM.
MAIN COMPRESSORS—1st STAGE	10/12/1925	114 lbs.	284 lbs.		20 ATM.
2nd "	10/12/1925	852 lbs.	1704 lbs.		100 ATM.
3rd "					
AIR RECEIVERS—STARTING	11/12/1925	852 lbs.	1704 lbs.		300 ATM. WATER PRESS. 80 ATM. AIR.
INJECTION	11/12/1925	852 lbs.	1704 lbs.	160	300 ATM. WATER PRESS. 90 ATM. AIR.
AIR PIPES	12/2/1924	852 lbs.	1704 lbs.	160	
FUEL PIPES	12/2/1924	852 lbs.	1704 lbs.		
FUEL PUMPS	12/2/1924	852 lbs.	1704 lbs.		
SILENCER					
WATER JACKET	12/2/1924	21 lbs.	60 lbs.		100 ATM.
SEPARATE FUEL TANKS	10/12/1925	21 lbs.	60 lbs.		
		21 lbs.	60 lbs.		
		21 lbs.	60 lbs.		

PLANS. Are approved plans forwarded herewith for Shafting (If not, state date of approval)  YES. Receivers  YES. Separate Tanks  YES.  
 Donkey Boilers  YES. General Pumping Arrangements  SEND BY LAST REP. Oil Fuel Burning Arrangements  SEND BY LAST REPORT.  
 SPARE GEAR compared with rules list and found complete and in order.

The foregoing is a correct description.

Dates of Survey of Survey *from Trieste 1925 Sep 7, Dec 19*  
 During progress of work in shops - *Trieste 2*  
 During erection on board vessel -  
 Total No. of visits

Dates of Examination of principal parts—Cylinders *7.12.25* Covers *7.12.25* Pistons *7.12.25* Rods *7.12.25* Connecting rods *7.12.25*  
 Crank shaft *7.12.25* Flywheel shaft *7.12.25* Thrust shaft *10.12.25* Intermediate shafts  
 Screw shaft  Propeller *10.4.24* Stern tube *10.4.24* Engine seatings *12.2.24* Engines holding down bolts *10.12.25*  
 Completion of filling sea connections *10.4.24* Completion of pumping arrangements *3.25* Engines tried under working conditions *1925 FINE*  
 Crank shaft, Material **STEEL** Identification Mark — Flywheel shaft, Material — Identification Mark —  
 Thrust shaft, Material **STEEL** Identification Mark — Intermediate shafts, Material — Identification Marks —  
 Tube shaft, Material Identification Mark — Screw shaft, Material **STEEL** Identification Mark —  
 Is the flash point of the oil to be used over 150° F.

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.)

PLEASE SEE FINE REPORT 2852.  
 The quality of the workmanship is good; Cylinders, covers, pistons, compressor, air receiver pump, valves crank, Thrust and tail shaft examined. Tested as per rules requirements as above with satisfactory results, all safety valves adjusted with notes in working conditions. The motor and shafting compared with the approved plans and found correct.  
 The plans is herewith enclosed. In my opinion the Machinery is eligible for the notation of LME-12.25.

The amount of Entry Fee *£. 240.*  
 Special ... *£. 500.*  
 Donkey Boiler Fee ...   
 Travelling Expenses (if any) *£. 175.*

*[Signature]*  
 Officer Surveyor to Lloyd's Register of Shipping.

Certificate (if registered) to be sent to the Surveyors on or below the space for Committee's Minute.

Committee's Minute **TUES. 2 FEB 1926**

Assigned *L.M.B. 12.25*  
*18.17 fitted 25*

FEB. 20 APR 1928  
 JER. 7 DEC 1928

