

REPORT ON STEAM RECIPROCATING ENGINE, MACHINERY.

No. 30007 d

Received at London Office 2 AUG 1947

Date of writing Report 23-7-1947 When handed in at Local Office 10 Port of Rotterdam

Survey held at Flushing Date, First Survey 27-7-47 Last Survey 23-6-1947

Book. 1/21 on the 5/3 "KOMSOMOLSK" (Number of Visits 10)

Yard No. 258 Tons { Gross Net

When built 1936

Engines made at Newcastle By whom made N.E. Marine Eng Co Ltd Engine No. When made 1936

Boilers made at By whom made Boiler No. When made 1936

Registered Horse Power 346 Owners USSR Port belonging to Vladivostok

Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ade for which Vessel is intended MN 373

GINES, &c.—Description of Engines Triple expansion.

a. of Cylinders 20" x 32" x 42" Length of Stroke 42" No. of Cylinders 3 Revs. per minute 90

ank shaft, dia. of journals as per Rule 12" Crank pin dia. 12" No. of Cranks 3

Intermediate Shafts, diameter as per Rule 11 3/8" Thrust shaft, diameter at collars as per Rule 12"

be Shafts, diameter as per Rule 14 3/4" Is the tube screw shaft fitted with a continuous liner? Yes

onze Liners, thickness in way of bushes as per Rule 23/32" Thickness between bushes as per Rule 23/32" 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 junctions made by fusion through the whole thickness of the liner? Yes

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

two liners are fitted, is the shaft lapped or protected between the liners? Yes Is an approved Oil Gland or other appliance fitted at the after end of the type? Yes

ft. If so, state type Length of Bearing in Stern Bush next to and supporting propeller 53"

opeller, dia. 15'-9" Pitch 16'6" x 15'9" No. of Blades 4 Material C. Mille. whether Moveable moveable Total Developed Surface 79 sq. feet

ed Pumps worked from the Main Engines, No. 2 Diameter 20" Stroke 55 1/2" Can one be overhauled while the other is at work? Yes

lge Pumps worked from the Main Engines, No. 2 Diameter 20" Stroke 55 1/2" Can one be overhauled while the other is at work? Yes

eed Pumps { No. and size 2 1/2" x 5 1/2" x 15" Pumps connected to the Main Bilge Line { No. and size One 1/4" x 8 1/2" x 8"

How driven steam & 2 M.E. rams.

atlast Pumps, No. and size 1 1/4" x 8 1/2" x 8" Lubricating Oil Pumps, including Spare Pump, No. and size 1

two independent means arranged for circulating water through the Oil Cooler

ge Pumps;—In Engine and Boiler Room 2 2 3/2" 1 2 4" 2 2 3" Suctions, connected to both Main Bilge Pumps and Auxiliary in tunnel 1 2 3"

Pump Room Hold No. 1 2 2 3/2" In Holds, No. 2 2 2 3"

in Water Circulating Pump Direct Bilge Suctions, No. and size 1 2 4" 5" on flange

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes? Yes

the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges? Yes

all Sea Connections fitted direct on the skin of the ship? No Are they fitted with Valves or Cocks? Both

they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates? Yes Are the Overboard Discharges above or below the deep water line? Above

they each fitted with a Discharge Valve always accessible on the plating of the vessel? Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate? Yes

at Pipes pass through the bunkers? none How are they protected? none

at pipes pass through the deep tanks? none Have they been tested as per Rule? Yes

all Pipers, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times? Yes

the arrangement 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 compartment to another? Yes Is the Shaft Tunnel watertight? Yes Is it fitted with a watertight door? Yes worked from 1st platform

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 5160 sq. ft. 541. 600 sq. ft.

Forced Draft fitted Yes No. and Description of Boilers 2 Multitubular Working Pressure 220 lb.

A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

A DONKEY BOILER FITTED? no If so, is a report now forwarded? No

the donkey boiler intended to be used for domestic purposes only? Yes

PLANS. Are approved plans forwarded herewith for Shafting 8-46 Main Boilers 8-46 Auxiliary Boilers Donkey Boilers

(If not state date of approval)

Reheaters General Pumping Arrangements 8-46 Oil fuel Burning Piping Arrangements

SPARE GEAR.

the spare gear required by the Rules been supplied? Yes

the principal additional spare gear supplied? spare screw shaft

The foregoing is a correct description.

Manufacturer.



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Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

Dates of Examination of principal parts—Cylinders Slides Covers
Pistons Piston Rods Connecting rods
Crank shaft Thrust shaft Intermediate shafts
Tube shaft Screw shaft Propeller
Stern tube Engine and boiler seatings Engines holding down bolts
Completion of fitting sea connections
Completion of pumping arrangements Boilers fixed Engines tried under steam
Main boiler safety valves adjusted 23-6-47 Thickness of adjusting washers Port boiler 9 1/2 in. S.A.B. 20 1/2 in.
Crank shaft material Identification Mark Thrust shaft material Identification Mark
Intermediate shafts, material Identification Marks Tube shaft, material Identification Mark
Screw shaft, material Identification Mark Steam Pipes, material steel Test pressure 440 lb. Date of Test 20-6-47
Is an installation fitted for burning oil fuel no Is the flash point of the oil to be used over 150°F.
Have the requirements of the Rules for the use of oil as fuel been complied with
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with Yes
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.)

This machinery has been opened up, examined and verified with the approved plans, Secretary's letters and when tried under working condition found all in order. In my opinion eligible to be classed with this Society; with a Record of LMC 6-47 notation T.S. seen 7-46.

The amount of Entry Fee ... £
Special ... £
Donkey Boiler Fee ... £
Travelling Expenses (if any) £
When applied for, 19
When received, 19

Committee's Minute

FRI. 26 SEP 1947

Assigned

LMC 6,47

S (C.L.) 7.46
FD.

2 SB 22016 Spt.

Engineer-Surveyor to Lloyd's Register of Shipping.



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