

COPY.

Lloyd's Register of Shipping.



Port OF LIVERPOOL.

3rd January, 1947.

This is to Certify that

H. C. MURRAY, L. D. TRENCHARD & H. HAFNER.

the undersigned Surveyor to this Society did at the request of

Messrs. F. Morland & Co., Agents to the Union of Soviet Socialist Republics, survey the Steamer "SLAVA", (ex "ANTARKTIKA"), 12639 gross tons, (formerly classed "Examined L.R. 10,45"), whilst in dry dock at Birkenhead and as she lay afloat in the West Float, Birkenhead, on 23rd October, 1946, and subsequently, with a view to ascertaining the efficiency of the vessel for a voyage to Vladivostok

HULL:-

The vessel has been placed in dry dock, the shell plating and rudder cleaned, examined and recoated.

The following spaces etc., have been examined:- Hold, cargo tanks, fore and after peak spaces, fore peak tank internally, decks, casings, ventilators, hatchways and their closing appliances, windlass steering gear and general equipment.

The following repairs have been effected:-

Thirty rivets renewed and ten welded in way of two indented plates in H strake in way of fore peak tank (port side) caulking of rivets and seams of plating in way overhauled and made good (cause of damage unknown).

Mushroom ventilator on starboard side aft renewed.

One new hatch beam supplied and fitted to forward hatchway and four wood covers renewed, 2 tarpaulins, 4 battens and 36 wedges supplied. Defective planking removed from forward hold and new planking supplied and fitted.

One hundred brass bow nuts supplied for side scuttles, seven side scuttles frames renewed complete and three repaired, eighteen glasses renewed. All hatch lids and toggles overhauled, thirty new toggles supplied and fitted, eighteen with eye bolts and pins.

Toggles on eight ship's side doors overhauled and one door frame faired in place.

All companionway doors overhauled and made good.

Steel hatch cover abaft bridge rejointed and bolted down watertight.

Deck made good on starboard side amidships and new coaming and watertight bolted plate cover supplied and fitted.

Storm valves of overboard discharges overhauled and releathered, several new clacks supplied and fitted.

Wood plugs and canvas covers supplied for ventilators and air pipes.

Indented keel, bottom and side plating (starboard) has been examined and found efficient.

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that :-

"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly performed, it is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances ever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Surveyors or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

"SLAVA".

g- (Contd).

Number of scattered rivets caulked.
Vessel has three bower anchors and a stream anchor and 235 fathoms
11/16" cable.

MACHINERY & BOILERS:-

Machined propellers, cocks, valves and outside fastenings of sea connections
engine room and both pump rooms.
Down of port and starboard screwshafts 3" and 4" respectively.

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Port and starboard main engine cylinders, pistons, valves, valve casings,
crank and thrust shafts with their bearings.
Main and H.P. piston valve chambers of both main engines gauged.
Port shaft coupling to crankshaft parted, shafting alignment verified and
gauge readings noted).

Port and starboard main engine attached air and bilge pumps.
Port and starboard main sea circulating pumps and engines, Auxiliary sea
circulating pump (duplex).
Main feed pumps.
Port pump.
Port and starboard steam generator engines and the adjacent diesel alter-

ator.
Fuel oil pressure pumps.

Fan engines.

Generator pump.

Fresh water pump.

Oil settling tank.

Flanges, cocks, pipes and strainers of pumping arrangements.

Main condensers tested.

Representative lengths of main steam pipe examined and hydraulically
tested, remaining steam pipes examined internally. All steam pipes
examined under steam.

Four main and both auxiliary boilers examined internally and externally
mountings, manholes, doors and their fastenings; safety valves adjusted.
Plain tubes were found to be generally somewhat thin at the back tube
ends.

MACHINERY REPAIRS.

Port main engine H.P. piston valve chamber bored and new valve rings and
springs (Lockwood & Carlisle) fitted, valve motion adjusted. H.P. piston
chamber machined true, new Lockwood and Carlisle piston rings fitted to H.P., M.P.
and L.P. pistons.

Starboard main engine. H.P. piston valve chamber bored and new valve rings
and springs (Lockwood and Carlisle) fitted, valve motion adjusted. New
Lockwood & Carlisle piston rings fitted to H.P., M.P. and L.P. pistons.

(Andrew & Cameron) valve, excessively worn, machined true at the sides
brass strips fitted to the starboard side, valve machined to suit cage
clearances verified.

Port main guide bars machined true and adjusted.

Starboard main circulating pump engine. Piston rod renewed, new piston
rings fitted.

Port main circulating pump engine. New piston rings fitted.

Port main feed pump. Bucket rod renewed. Bucket ring grooves machined true
new bucket rings and piston rings fitted.

Port main port suction valve seat landing machined true and false landing
seat (brass) fitted. Delivery valve seats machined true. Valve motion

adjusted and bushes renewed. Bucket ring grooves machined true and new

Starboard main feed pump. Bucket ring grooves machined true and new
bucket rings and piston rings fitted.
Valve motion pins and bushes renewed.



MACHINERY REPAIRS (CONTD).

Auxiliary sea circulating pump. Both water end liners renewed and buckets machined to suit. New bucket rings fitted.
 Ballast pump. Both piston rods renewed. Suction and delivery valves renewed. Valve motion pins and bushes renewed.
 New piston rings and bucket rings fitted.
 Port steam generator engine. H.P. & L.P. crankpin brasses reinstalled. L.P. restricted piston rings renewed. L.P. piston machined and new steel head fitted with new piston rings.
 Diesel Alternator. (in main engine room). Gudgeon pin bushes (4) renewed. All piston rings renewed.
 Both fuel oil pressure pumps. Shuttle valve chests renewed. New piston rings and bucket rings fitted. Valve motion pins renewed.
 After fan engine. Cylinder bored and piston renewed. New piston rings fitted.
 Forward fan engine. New piston rings fitted.
 Vaporator pump. Suction and delivery valves and seats machined true.
 Port fresh water pump. Cylinders bored, new pistons and piston rings fitted; slide valves and valve faces machined true. Bucket ring grooves machined true and new bucket rings fitted. Valve motion pins and bushes renewed.
 Fuel oil settling tank. Defective rivets and seams dealt with.
 Three defective lengths of ballast pump discharge pipe (steel) renewed. Spare gear verified and brought to the Society's Rule Requirements.

BOILER REPAIRS.

Port forward boiler. Port high combustion chamber. 22 defective plain tubes renewed and about 24 plain tubes expanded.
 Starboard high combustion chamber. About 80 plain tubes expanded.
 Starboard low combustion chamber. 3 defective plain tubes renewed and about 30 plain tubes expanded.
 A number of back stays caulked.
 Double butt straps caulked.
 Boiler hydraulically tested on completion.
 Port after boiler.
 Port high combustion chamber. About 80 plain tubes expanded.
 Starboard high combustion chamber. About 80 plain tubes expanded.
 Port low combustion chamber. About 40 plain tubes expanded.
 Starboard low combustion chamber. About 10 plain tubes expanded.
 Double butt straps caulked.
 Circumferential seam rivets adjacent bottom manhole caulked.
 Main and auxiliary internal feed pipes renewed.
 Main check, blowdown, scum and whistle valve lids, renewed.
 Boiler hydraulically tested on completion.
 Starboard forward boiler. Port high combustion chamber. About 80 plain tubes expanded.
 Starboard high combustion chamber. About 80 plain tubes expanded.
 Port low combustion chamber. About 80 plain tubes expanded.
 Starboard low combustion chamber. About 80 plain tubes expanded.
 Auxiliary internal feed pipes renewed.
 Auxiliary check valve chest rejointed to shell.
 Main and auxiliary check valve seats renewed.
 Defective superheater header drain valve chest renewed.
 Boiler hydraulically tested on completion.



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BOILER REPAIRS (Cont).

Starboard after boiler. Port high combustion chamber. About 40 plain tubes expanded.
 Port low combustion chamber. 11 defective plain tubes renewed and about 10 plain tubes expanded.
 Starboard low combustion chamber. 17 defective plain tubes renewed and about 60 plain tubes expanded.
 Port side double butt strap caulked.
 Circumferential seam rivets adjacent bottom manhole caulked.
 Main and auxiliary internal feed pipes renewed.
 Main stop, main check and scum valve lids renewed.
 Boilers hydraulically tested on completion.
 Water gauge column pipes (steel) removed from the four main boilers, examined and hydraulically tested; 7 defective pipes renewed.
 Port auxiliary boiler.
 Scum, blowdown and feed master check valve lids renewed.
 Starboard auxiliary boiler.
 Blowdown valve lid renewed.

ELECTRICAL EQUIPMENT:-

Installation examined and tested. Generators, essential motors, control gear, cables fittings, switchboards etc. examined. Insulation test carried out.
Repairs. Bridge Lighting. Wheelhouse and bridge wiring overhauled. Navigation panel rewired, navigation lights overhauled, all circuits overhauled and repaired as necessary.
Crews' accommodation forward. Wiring and fittings overhauled, several switches and fittings made good.
'A' & 'B' Deck Lighting. Low insulation faults located, fuse board overhauled.
Crews' accommodation aft. Low insulation faults located and removed, fittings and switches made good.
Stores forward. Faults located and removed. Wiring made good.
Boiler Room lighting. Wiring and fittings overhauled, faults removed, and several circuits rewired.
Deck Lighting. All wiring and fittings tested and overhauled, several faults removed.
Blacksmith's Shop & Separator Room. Wiring overhauled and made good.
Factory lighting. Faults located, damaged cables renewed, redundant cables removed or isolated, fittings etc. made good.
Ventilation Motors. All motors overhauled, cleaned, varnished. Brush gear overhauled, new brushes fitted.
Large Pump Motor. Motor overhauled, connections made good, new terminal block fitted.
Factory Space. All obsolete and redundant cables disconnected. Section board overhauled, cables at back re-insulated.
Separator Room. Main Deck port. All wiring examined and generally overhauled.
Main Room lighting. All circuits tested, low insulation faults located and removed. Several circuits rewired.
Refrig. Vent fan. A.C. Motor removed. New D.C. Motor and starter fitted and new cables installed.
Forward Power Supply. Faulty cable located in main cable run. Cable re-insulated and refitted. New plug connection fitted in forward pump room.
Sanitary Pump Motor. Wiring between motor and starter renewed.
Main Switch Board. Wiring and connections checked, new switch parts fitted, fuses overhauled.
Control Room. Main A.C. circuit breakers dismantled, new parts fitted, breakers adjusted, meters calibrated, temporary wiring at back of board removed, board examined and several items overhauled and made good.
No.1 Alternator dried out and generally overhauled and cleaned, brush gear overhauled. No.2 Alternator generally cleaned, overhauled and made good.

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"SLAVA".

Main Generators in Engine Room. No.1 generator stripped and cleaned, commutator micas undercut, brush gear overhauled. No.2 machine. Armature removed and coils re-insulated, commutator skimmed, micas undercut, field coils and brush gear overhauled. Nos.3 & 4 machines generally overhauled and tested.

Galley Blower Fan. Motor totally rewound and cables made good, new D.P. switch and fuse fitted.

General. A number of motors were removed from vessel and repaired, several were rewound, others had new field coils fitted, all brush gears overhauled and made good.

New Bakers Oven fitted in bakehouse. Wiring fitted from main switchboard in Engine Room.

Alarm systems, telephones and bells and loudspeaker circuits overhauled and several additional points fitted.

On completion the installation and repairs were examined and tested and found satisfactory.

Main and auxiliary machinery examined under working conditions, in deck, on completion and found satisfactory.

Naush B. Murray *Wilhelm Hassel* *Adolf Hoffmann*

SURVEYORS TO LLOYD'S REGISTER.



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