

14 JUN 1961

Rpt. 9

Date of writing report 5.6.61 Received London Port H A M B U R G No. 10591  
Survey held at Lübeck No. of visits 3 First date 24.5.61 Last date 26.5.61

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 79311 Name <sup>SS</sup> MV. T.S. " M O D A L " Gross tons 10720 Date of build 1945  
Owners I/S Modal Managers Torvald Klaveness Port of Registry Oslo  
Engines made 1945 By General Electric Co. Type Steam Turbine connected to elec. motor  
No. of Main Engines 1 No. of Screws 1 Records of Survey & Special Notations as per Register Book

No. of Main Boilers	2	W.P. 500 lb/sq.inch	Hull		Machinery	
No. of Aux./Donkey Boilers	-	Spt. 480 lb/sq.inch				
Surveyed Afloat or in Dry Dock	both		100 A1		LMC	10/57
Nature of Survey	Screwshaft Survey		oil tanker		MBS	11/59
Was Damage Report issued?	-	Int. Cert.? YES	DS	10/59	TSCL	9/57
Last Report (For Head Office only)	yes		SS	10/57	s.p.s.	10/57

The condition of any of the following items is to be described as "good" only when the part has been examined, found or placed in good condition, and is considered to be acceptable until the due date of the next Periodical Examination. Where it is considered that re-examination or repairs should be effected before the due date of the next Periodical Examination a distinguishing mark thus † should be inserted against the item and the circumstances and action recommended described fully under "defects and repairs". At part or complete Special Surveys those items which are not applicable to the ship should be cancelled with a black line; this need not be done when the machinery is on a continuous survey basis. When any part has been subjected to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

DOCKING Propellers good Wear Down of Stern Bushes 2.8 mm Oil Glands - Sea Connections good  
Fastenings good Has Screwshaft Tubeshaft been drawn? yes Date of Examination 26.5.61 Has Shaft been changed? no  
Has Shaft now fitted been previously used? - Has Shaft now examined/fitted a continuous liner? - Approved oil gland? -

- MAIN ENGINES (Recip. Steam or I.C.) PORT STARBOARD
- 1 Cyls., Covers, Pistons & Rods
- 2 Valves & Gears
- 3 Connecting Rods, Top Ends & Guides { Side, Centre
- 4 Crankpins & Bearings { Side, Centre
- 5 Journals & Bearings
- MAIN ENGINE DRIVEN AIR COMPRESSORS
- 6 Cyls., Covers, Pistons & Rods
- 7 Connecting Rods & Top Ends
- 8 Crankpins & Bearings
- 9 Journals & Bearings
- 10 Coolers & Safety Devices
- MAIN ENGINE DRIVEN SCAVENGE PUMPS
- 11 Cyls., Covers, Pistons & Rods
- 12 Connecting Rods & Top Ends
- 13 Crankpins & Bearings
- 14 Journals & Bearings
- 15 Levers
- 16 SCAVENGE BLOWERS
- 17 SUPERCHARGERS
- MAIN TURBINES
- 18 Casings, Rotors, Blading, Bearings & Thrusts
- 19 EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)
- 20 STEAM COMPRESSORS
- 21 CLUTCHES & HYDRAULIC COUPLINGS
- 22 REDUCTION GEARING
- 23 THRUST BLOCKS, SHAFTS & BEARINGS
- 24 INTERMEDIATE SHAFTS & BEARINGS
- 25 HOLDING DOWN BOLTS & CHOCKS
- 26 CONDENSERS (MAIN & AUX.)
- 27 STEAM RE-HEATERS
- 28 DE-SUPERHEATERS
- 29 STOP & MANOEUVRING VALVES
- 30 MAIN ENGINE DRIVEN PUMPS
- 31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES

Survey confined to over 2eat

OPINION OF MACHINERY AND RECOMMENDATIONS. The machinery of this vessel, where now seen, is in efficient condition and eligible in my opinion to remain as now classed with fresh record of TSCL 5.61, subject to upper nest of air preheater tubes in stbd. boiler being renewed and boiler not being used in the meantime as previously recommended.

Date of Committee TUESDAY 27 JUN 1961  
Decision As now subject

{ MSS record withheld }  
TS " "

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 W. D. [Signature]  
 Engineer Surveyor to Lloyd's Register of Shipping  
 giste  
 Foundation  
 010519-010525-0108

Has a Survey also been held on Ship? If so, is the Report sent now, or when will it be sent?

If certificate is required state where to be sent

32 Essential Independent Pumps (Identify by position).....  
 33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls.....  
 34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary?.....  
 35 Fresh Water Coolers..... 36 Lub. Oil Coolers..... 37 Heaters (state service).....  
 38 Independent Air Compressors, Coolers & Safety Devices.....  
 39 Air Receivers & Safety devices—Main..... 40 Auxiliary.....  
 41 Oil Fuel Tanks (Not forming part of hull structure).....  
 42 Evaporators..... 43 Have Evaporator Safety Valves been tested under steam?.....  
 44 Steering Machinery..... 45 Windlass..... 46 Fire Extinguishing Arrangements.....

AUXILIARY ENGINES (Identify by position).....  
 .....  
 .....

PROPULSION	ELECTRICAL EQUIPMENT		AUXILIARY EQUIPMENT
	PORT	STARBOARD	
a Generators			l Generators & Governors
b Exciters			m Motors
c Air Coolers			n Switchboards & Fittings
d Motors			o Circuit Breakers
e Air Coolers			p Cables
f Control Gear, Cables, etc.			q Insulation Resistance
g Insulation Resistance			r Steering Gear Generators and Motors
h Insulating Oil Test			s Navigation Light Indicators
i Overspeed Governors			
j Magnetic Couplings			
k Air Gap			

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)  
 MAIN..... AUXILIARY, DONKEY or PRESS.....  
 Superheaters.....  
 Safety Valves.....  
 Mountings, Doors & Fastenings.....  
 Safety Valves Adjusted to { Sat.....  
 { Spt.....  
 Boiler Securing Arrangements.....  
 Main Economisers..... Exhaust Gas Heated Economisers.....  
 Steam Heated Steam Generators..... Steam Generator Safety Valves Adjusted to.....  
 Were Oil Burning System & Remote Controls examined working in accordance with Rules?..... Forced Circulating Pumps.....  
 Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules?..... Funnel.....

EXAMINATION & TESTING OF STEAM PIPES (State material)  
 Main..... Auxiliary (over 3 in. bore).....  
 Were Copper Pipes annealed?..... Have Saturated Pipes in cylindrical boiler smoke boxes been tested?.....

PARTICULARS OF DEFECTS & REPAIRS, ETC. (Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken regarding items which are subjects of class)

Docking:- Repairs to sea connections effected, where found necessary.....  
 On forward key way end of propeller shaft found small surface cracks. The key way spooned out and polished, and on completion of polishing, the shaft examined by means of fluorescence test and found sound.....  
 Note:- This vessel is now sold to Pen Line, will be converted to an ore carrier and the Class will be transferred to American Bureau of Shipping.....

*M.C.P.*



LEAVE THIS SPACE BLANK

Survey fees ... T SCL £ 8. 0. 0.  
 Docking ..... £ 5. 10. 0.  
 Repair ~~charge~~ fee ... £ 3. 10. 0.  
 Expenses... .. £ 4. 10. 0.

Date when A/c rendered.....



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