

SEP 1960

Rpt. 9

Date of writing report 6.9.60 Received London Port Piraeus No. 8595  
Survey held at Kynossoura, Greece. No. of visits 2 First date 7.7.60 Last date 16.7.60

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 52360 Name S.S. "ARO" Gross tons 7221 Date of build 3-1930  
Owners Aro Tankers Co. S.A. Managers - Port of Registry Panama  
Engines made Wal. By Wallsend Slpwy. Co. Ltd. Type T 3cy.  
No. of Main Engines 1 No. of Screws 1 Records of Survey & Special Notations as per Register Book  
No. of Main Boilers 3SB W.P. 180lbs.  
No. of Aux./Donkey Boilers - W.P. -  
Surveyed Afloat or in Dry Dock Afloat  
Nature of Survey G.E. for post. E.S. & Compl. MBS  
Was Damage Report issued? - Int. Cert.? Yes.  
Last Report (For Head Office only)

Hull		Machinery	
+100A1		+LMC	
oil tanker		E.S.	2,56
S.S.	2,56 (Dr.)	MBS	1,59
D.S.	1,59	TS CL	11,57
		SPS	2,56

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 Wear Down of Stern Bushes Oil Glands Sea Connections  
Fastenings Has Screwshaft Tubeshaft been drawn? Date of Examination Has Shaft been changed?  
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, { Side  
Top Ends & Guides { Centre  
4 Crankpins & { Side  
Bearings { 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 & MANŒUVRING VALVES  
30 MAIN ENGINE DRIVEN PUMPS  
31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES Have Main Engines been tested working and manœuvring? Yes.

OPINION OF MACHINERY AND RECOMMENDATIONS The Machinery of this vessel is in my opinion eligible to remain as now classed in the Register Book with fresh record of MBS 6,60 now as previously recommended.

Date of Committee TUESDAY 1 OCT 1960  
Decision Ntd



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Engineer Surveyor to Lloyd's Register of Shipping

002498-002505-0042



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

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)

MAIN..... ~~AUXILIARY, DONKEY or PRESS~~

~~X Superheaters~~

Safety Valves.....

Mountings, Doors & Fastenings.....

Safety Valves Adjusted to { Sat. All 3 boilers adjusted 180 lbs./sq.in.  
Spk.

Boiler Securing Arrangements..... Good.

~~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? Yes.

Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? None. Funnel Good

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)

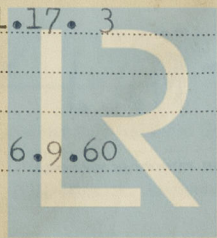
Machinery generally examined as per circular No. 1959 for postponement of engine survey for voyage to La Spezia for breaking up.

Main and auxiliary machinery and pumping arrangements tested and working conditions.  
The electrical installation megger tested. All found in efficient condition.

It is submitted that a recommendation of extension of survey for voyage to La Spezia be favourably received.

LEAVE THIS SPACE BLANK

Survey fees ... £ 27.10. 0  
Completion MBS ..... 5. 0. 0  
Stamps ..... 9  
Damage fee .....  
Expenses... ..... 1.17. 3  
Date when A/c rendered ..... 6.9.60



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ed.B. I den 1/60 partly held 6/60 now completed.  
General Examination carried out in accordance  
with Cir 1959. Found good, surveyor  
recommended postponement of E.S. for voyage  
to La Spezia.

It is submitted that the  
vessel is eligible for TIR  
RECORD. ed.B. I. 6/60  
G.P.P.  
29.8.60