

Report of Survey for Repairs, &c., of Engines and Boilers.

No. 3895

Date of writing Report 29th May 1940 When handed in at Local Office 29th May 1940 Port of GALVESTON, TEXAS.
 in Book Survey held at Houston & Galveston, Texas. Date, First Survey 1/8/ Last Survey 9/5/ 1940.
 on the Machinery of the M.V. KROSPONTON (No. of Visits) 6

Gross	9323	Vessel built at	Odense	By whom	Odense Stadskibsvftved A.P. When	1935 S
Net	5550	Engines made at	Copenhagen	By whom	Kolff Akt. Mekaniskr & Wain When	1936
Final Power	728	Boilers, when made (Main)	-	(Donkey)	1935	
Main Boilers	-	Owners	Skibsaktieselsk. "Dalfonn"	Owners' Address	-	
Donkey Boilers	228	Managers	Sigval Bergezen	Port	Stavanger	Voyage
Pressure-boil Boilers	-	If Surveyed Afloat or in Dry Dock	Both	Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).		
Donkey Boilers	180lbs.	(State name of Dock)	Todd Gal. U.D. Inc., Shell Ref. Dock,	CHARACTER.		
		Bellver Roads.	For Special Survey	Date of last Survey and of	Yards assigned now or estimated	Machinery and Boiler
		Dock, Dam.	No.	Periodical Surveys.		Survey
		Part C.S.				(Including date of N.B. if any).

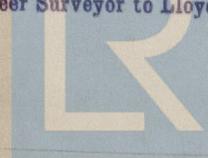
Report No. Port
 ticulars of Examination and Repairs (if any)
 Particulars of Examination and Repairs (if any)
 Ideal Surveys, when held, must be reported in detail and verbatim in the terms of the Rules. State clearly the
 of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on
 of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and
 being detailed in the body of the report, should be briefly summarised at the end of the report. State also the
 and initials of any letters respecting this case.
 cases where the Surveyor has not made a special damage report he is required to state whether he
 offered his services for this purpose, and why they were declined. Dam. Rpt issued, copy
 damage report made by anyone else? If so, by whom? T.S. Lin. Co Nor. und.
 Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? ✓
 Donkey " " No.
 was not done, state for what reasons? DBS 7.39 assigned (as per letter from Lec. London).
 parts of the Boilers could not be thus thoroughly examined? ✓
 at special means, in the absence of internal examination, were adopted by the { ✓
 to assure himself of the thorough efficiency of those parts of each Boiler? ✓
 test date of internal examination of each boiler ✓
 Present condition of funnel(s) ✓
 Surveyor examine the Safety Valves of the Main Boiler? ✓
 To what pressure were they afterwards adjusted under steam? ✓
 Surveyor examine the Safety Valves of Donkey Boiler? ✓
 To what pressure were they afterwards adjusted under steam? ✓
 Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? ✓
 , and of the Donkey Boilers? ✓
 Surveyor examine the drain plugs of the Main Boilers? ✓
 , and of the Donkey Boilers? ✓
 Surveyor examine all the mountings of the Main Boilers? ✓
 shafts examined in place with propeller off. ✓
 shaft now been drawn and examined? No. Is it fitted with continuous liner? ✓
 now been changed? ✓ If so, state reasons ✓
 shaft now fitted been previously used? ✓ Has it a continuous liner? ✓
 of examination of Screw Shaft ✓ State the distance between lignum vitæ or bearing metal of stern bush and top of after bearing of screw shaft
 inc parts, when referred to by numbers, should be counted from forward. ✓
 Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? ✓ No.
 the Surveyor examine the generators, motors, switchgear, cables and fuses? ✓
 insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? ✓
 Survey is not complete, state what arrangements have been made for its completion and what remains to be done. To complete the Survey, -
 intermediate & screw shafts also temporary repairs to the engine supercharging chain drive lower housing being
 specially examined before the end of 10.41. - (C.S. case).
 Now Done. For Part C.S.
 Examined - Main engine, Port Nos 3, 5. Starb. Nos 1, 7.
 Cylinder, piston, valves, gears, cover, connecting rod,
 top end, bottom end bristles & crank pin.
 Port No 3 crankshaft journal & bearing.
 Port & Starboard Supercharger & gearing, & intermediate shafts
 Also propellers (removed) & fastenings. (See Contin.)

al Observations, Opinion, and Recommendation:- This vessel's machinery, so
 clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also
 any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9/11, B.G.M.S. 9/11, & L.M.C. 9/11, or
 L.M.C. 140 lb., F.D., &c.)

as now seen, is in order & eligible in my opinion to
 be classed and to have record of +LMC, CS (with date)
 the Survey has been completed, subject to the intermediate
 screw shafts, also temporary repairs to the main engine
 supercharging chain drive lower housing being specially examined
 before the end of October 1940 (10.41).
 per Section 29)

age or Repair Fee (if any) £ 40.00 Fees applied for 9/5/1940 WR
 er Section 29) £ :
 spenses (if chargeable) £ 1.50 Received by me, 15/5/1940
 NEW YORK JUN 5-1940

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 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
 Foundation

Port of GALVESTON Continuation of Report No. 3895 dated 29th May 40. on the

"M/V KROSS FONN."

Now Done for Part C.S (contd.).

All the foregoing found or now placed in order
as under.

Part of the above examination & the following
repairs effected are alleged to be due to
grounding at Saint Nazaire Roads, 28th Jan. 40,
during a ballast voyage from Douges, France
to Panama.

Damage Repairs. (See Damage Report).

Starboard No. 7 cylinder, (found badly leaking
at the lower end of the water jacket in way
of rubber sealing ring, grooved & corroded)
The cylinder assembly unit conveyed to
shop, the cover ground into a spare liner,
a spare cylinder water jacket fitted &
reconditioned and placed on board as
spare.

A complete new spare unit, comprising
cover, liner & jacket now installed.

Side connecting bolt holes remeasured &
new bolts fitted.

Port No. 3 cylinder, (cover found fractured
on the underside, about 6" long, at the
radius of curvature, well clear of valve
pockets, fracture not actually leaking).
The cylinder unit now replaced by a
complete spare unit from the fore hold,
comprising a new liner & jacket & a
previously used cover in good condition.

Side connecting bolt holes remeasured &
new bolts fitted.
Also three gale valves in circulating line
overhauled.

Stated due to heavy weather encountered
various dates, Jan & Feb. 40, ballast voyage
from Douges to Panama.

Damage Repairs.

Port Nos 3 & 5, Starb No 1, the white metal
of the bottom end crown brass was
found cracked & broken, and have now
been remetalled.

Machinery satisfactorily tested under
working conditions upon completion of
the repairs

(See Continuation)

WK

"M/V KROSSFONN"Limitation Surveys.

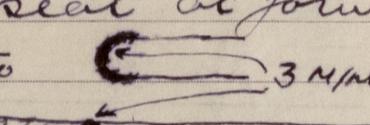
The temporary repairs to the main engine supercharging chain drive housings now specially examined & found to continue sound & efficient.

The repaired items are a part of the housing enclosing the supercharging chain drive, primarily to form a lubricating shield & oil container and are not strength members of the engine.

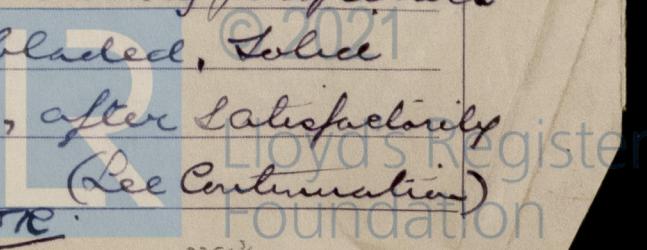
Recommended repairs be further examined before end of October 1941.

Lee Cable & Secretary's letter dated 11th Apr. 40, H.

The port & starboard intermediate & screw shafts now carefully examined in place with the propellers off, and all found in good order.

In compliance with a suggestion from the engine Builders the sharp edge at top of the screw shaft keyseat at forward end has been ground off to  3 1/4 inches radius.

The Chief Engineer reports that the machinery has a critical range & vibrates rather heavily between 105 to 125 revolutions per minute, but above and below this speed the machinery runs smoothly. The maximum revolutions are 142, & full revolutions under general condition 139, whilst half speed is 90 to 98 Revs. per minute. vibration can therefore be avoided except when actually manoeuvring down from full to half speed or vice versa.

New, three bladed, solid bronze propellers were fitted P&S, when the Screw Shafts were renewed in June 1939. It is now reported that these new propellers have reduced the consumption 2 tons per day, but have given 1 knot less speed per hour as compared with the previous propellers fitted, also have tended to increase the shaft vibration. Accordingly at the request of the charterers the previously used propellers, (i.e working propellers prior to 6.39), which are also three bladed, solid bronze, have now been reinstalled, after satisfactorily checking the fit on the shaft cone. (Lee Continuation) 

Port of GALVESTON Continuation of Report No. 5895 dated 29th May 40. on the

The vessel again come under Survey on account of rudder damage, and the chief engineer reported that during the run from Galveston to Houston & back to Galveston, the change of propellers had reduced the vibration somewhat, but of course was still present between 105 to 125 revs per min.

The master states that the vessel normally dry docks about every nine months, and it was accordingly recommended that the intermediate & screw shafts be again specially examined in about 18 months time, i.e before end of October 1941.

Cert B issued, copy herewith.

Lvns Le. M/V Fernbrook, No. 24445 in R.B. Clasped N.V.

It may be of interest to mention that this vessel was detained here for about 16 days, some six months ago, on account of both screw shafts being condemned & only one spare shaft available on board. I looked at these shafts out of interest but did not inquire as to the circumstances. The port shaft was deeply cracked at the forward end of the cone for 5/8 of circumference, and the starboard shaft cracked 1/16" deep all around to 2" deep at keyseat.

It will be noted that the engine builders, also size & stroke of cylinders are the same, but number of cylinders and dimensions of vessels, etc are different.

W.R.

See 8-39 Phell. Noted.

Suly. as now recommended.

Leads on shafting to
expri 6-41 D/A 7/7/40. G.P.

See Mr. Dorey's letter 16-7-40
re limit on intermediate
of screw shafts 9/7/40.

General for 2 days
critical speed can

Please return to
all after 2 days
Dorey's letter
16-7-40