

Received London

Rpt. 9A

REPORT OF MACHINERY SURVEYS AND REPAIRS (Engines and Auxiliaries)  
FOR CONSIDERATION BY THE COMMITTEE OF LLOYD'S REGISTER OF SHIPPING

Ship's Name ~~SS~~ "CALTEX LIVERPOOL"

Port Sydney, N.S.W.

Processing  
Number: LR 505856

Gross tons 11847

Rpt. No. 39612

Port of Registry Sydney, N.S.W. Date of build 11/1952

Is there a rpt. 8? No

No. of visits 4

First date 24/7/67

Last date 2/8/67

Interim Cert. issued  
& copy herewith? Yes

Damage rpt. issued  
and copy herewith? No

Last rpt. (H.Q. only) Syd 39430

Date of  
completing rpt. 29/9/67

Surveyed at, if different from Port above

Is a rpt. 9B  
attached? No

MN 1640

Nature of survey CSM & REPS. M.

Survey fees

Damage fee

Expenses

\$80.00

-

\$4.50

S.A. fee - 837

MAIN ENGINES, ~~RECIP.~~ STEAM OR I.C. (State Port—P or Starboard—S)

1 Cyls., covers, pistons,  
rods, valves, including  
rotary valves, & gears

2 Con.rods, crossheads,  
bearings & guides Side

3 Crankpins  
(incl. eccentrics)  
& bearings Side

Centre

4 Crankshaft journals  
& bearings

5 Detuner or  
vibration damper

MAIN ENGINE DRIVEN SCAVENGE PUMPS AND/OR AIR COMPRESSORS (delete as applicable)

6 Cyls., covers,  
pistons & rods

7 Con.rods, crossheads,  
bearings & guides

8 Crankpins &  
bearings

9 Journals &  
bearings

10 Levers, links &  
bearings

11 Coolers &  
safety devices

12 Scavenge blowers  
& superchargers

13 Air Coolers

14 Crankcase & scavenge doors & explosion relief devices

MAIN TURBINES

15 Casings, rotors,  
blading, bearings,  
thrusters & couplings

L.P. - Good

16 Astern turbine - Good

I declare that the items detailed in this report (except as stated otherwise) comply with the requirements of the Merchant Shipping (Cargo Ship Construction and Survey) Rules 1965, applicable to this ship, and are in all respects satisfactory for the service on which the ship is intended to ply, namely, International voyages/voyages within the limits

(The above declaration applies to sea-going cargo ships of 500 tons gross and above registered in the U.K.)

I recommend that the machinery of this ship remain as classed with ~~xxxxxx~~ fresh record of C.S.M. 8/67 now subject to any outstanding conditions of class being dealt with as previously recommended.

(Where conditions of class are recommended to be retained, imposed, amended or deleted, particulars must be stated above and on the interim certificate)

(S.C. JOHNSON and A.J. DIX)  
Surveyor to Lloyd's Register of Shipping

Date of Committee

Minute

ALSO FOR

SPL FOR

TRQ

SRL

POSTING

HEADER

CERT

THURSDAY 16 NOV 1967

Lloyd's Register  
Foundation

1 DEC 1967

FOR CHAIRMAN  
CLASSN. CITEB

CSM 8-67



## MAIN REDUCTION GEARING

17	Pinions & wheels	18	Shafts, bearings & couplings
19	Exhaust steam turbines (with recip. eng.)	20	Thrust blocks, shafts & bearings
21	M.E. steam compressors	22	Intermediate shafts & bearings
23	Clutches & hydraulic couplings	24	Steam re-heaters
25	De-superheaters	26	Forced &/or induced draught fans
27	Stop & manoeuvring valves	28	Holding down bolts & chocks
29	Main engine driven pumps (including fuel injection)		
30	Condensers (main & aux.)	31	Air ejectors (main & aux.)
32	Have main engines been examined working & manoeuvring?		

Yes - Good

33 Essential independent pumps Main C.W. (port fwd.) - Good  
Electrically driven G.S. - Good  
Aft. L.D. - Good

34 Bilge, ballast & oil fuel suction lines, fittings & controls 35 Have the remaining piping arrangements & fittings in the machinery space been examined as considered necessary?

36 Fresh water coolers 37 Lub. oil coolers

38 Heaters & safety devices including de-aerator (state service) 39 Pressure feed water filters

40 Auxiliary air receivers & safety devices 41 Starting air pipes

42 Main air receivers & safety devices

43 Independent air compressors, coolers & safety devices 44 Oil fuel tanks (not forming part of the hull structure)

45 Have all evaporators safety valves been tested under steam? 46 Evaporators 47 Distillers

48 Steering machinery 49 Windlass 50 Machinery spare gear

## AUXILIARY ENGINES

## DOCKING

Propeller	Sea connections	Oil gland
Fastenings & gratings	Clearance in stern bush (if relined state clearance before & after)	Date of examining shaft & condition
Has screw/tube shaft been drawn?		Has shaft now fitted been previously used?
Has shaft been changed?		

Has shaft now examined/fitted a continuous liner?

Approved oil gland

## PARTICULARS OF DEFECTS, REPAIRS, ALTERATIONS, ETC.

L.P. Rotor and casing

Found:- Two blades of 8th ahead moving row broken and this row and later rows of moving and fixed blades edges damaged and tips bent. Binding wire loose. Both journals and thrust faces scored.

State whether continuation sheet attached Yes.

The reason for repairs must be stated and those on account of damage, the alleged cause of which must be given, should be detailed separately for wear and tear repairs. State what action has been taken regarding items which are subjects of class. State also where appropriate, for the information of the Technical Records Dept., the material of the defective item and whether it is a forging, casting or welded fabrication. Any alterations in existing particulars in the Register Book should be reported above.

State  
Port P. or  
Starboard S.Identify  
by  
position



Ship's Name SS ~~XXX~~ "CALTEX LIVERPOOL"

Port Sydney, N.S.W.

Rpt. No.

39612

Now Done:

Rotor and top half casing removed to workshop, journals and thrust faces skimmed and bearings remetalled and machined to suit.

Both broken blades removed from 8th moving row. Blade binding wire rebrazed as necessary. Fixed and moving blades dressed as necessary.

Rotor rebalanced and placed in good order.

H.P. turbine bearings and thrust opened up for inspection and found in good condition. L.O. drain tank cleaned and lub. oil removed. On completion of repairs main engine was seen under working conditions and found good.



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