



1939  
 Hongkong. Aug. 16, 30, Sept. 5, 11, 22, Oct. 3, 6, 31. Nov. 9, 13, 28. Dec. 15.

Dates of Survey while building  
 During progress of work in shops --  
 During erection on board vessel ---  
 Total No. of visits Hongkong. 32.

1939 Dec. 8, 9, 18, 27, 29, 1940 Jan. 2, 10, 16, 20, 23, 29, 31. Feb. 5, 6, 12, 17, 22, 26, 29.  
 March 2<sup>nd</sup>.

Dates of Examination of principal parts—Cylinders 19-5-39 Slides 8+14/6/39 Covers 19-5-39  
 Pistons 8-6-39 Piston Rods 3-5-39 Connecting rods 8-6-39  
 Crank shaft 29-4-39 Thrust shaft 15-12-39 Intermediate shafts 15-12-39  
 Tube shaft ✓ Screw shafts 15-12-39 Propeller 15-12-39  
 Stern tube 15-12-39 Engine and boiler seatings Dec. 8, 1939. Engines holding down bolts 10-1-40  
 Completion of fitting sea connections 8-12-39  
 Completion of pumping arrangements 22-2-40 Boilers fixed 16-1-40 Engines tried under steam 26-2-40  
 Main boiler safety valves adjusted 22-2-40 Thickness of adjusting washers Port Boiler 7/16" + 15/32" Superheater 13/32"  
 Crank shaft material Steel Identification Mark R.M. 28-4-39 Thrust shaft material Steel Identification Mark 15-12-39  
 Intermediate shafts, material Steel Identification Marks 15-12-39 Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material Steel Identification Mark 15-12-39 Steam Pipes, material Steel Test pressure 305 lbs. Date of Test 6-2-40  
 Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. ✓  
 Have the requirements of the Rules for the use of oil as fuel been complied with ✓  
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No If so, have the requirements of the Rules been complied with ✓  
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with ✓  
 Is this machinery duplicate of a previous case? Yes, except attached pumps If so, state name of vessel S.S. "Muluwinba"

**General Remarks** (State quality of workmanship, opinions as to class, &c. This engine has been built under special survey in accordance with the requirements of the Rules (See Newcastle on Tyne Report No 97653) +, together with the auxiliary machinery, have been satisfactorily fitted in the vessel. Materials + workmanship are good.  
 See Manchester Report No 9656 for oil engine electric generator set.  
 Forging report enclosed, certificates for pumps, valves, Filters, Evaporator, Distiller, Thrust Block etc. produced, but stated required by Owners in Sydney.  
 Plan of piping arrangements as fitted enclosed.

The machinery has been tested under full working conditions + found satisfactory + it is recommended that the vessel be classed with Lloyd's Machinery Certificate + the record of + LMC 3-40, C.L., Water Tube Boilers, be made in the Register Book.

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee (1/2) £4 = \$ 65  
 Installation (1/2 full fee) £23.14 = \$ 384  
 Engine Forging ✓ \$ 125  
 Donkey Boiler Fee ✓  
 Travelling Expenses (if any) \$ 75  
 Total \$ 649

When applied for, 4<sup>th</sup> Mar 1940  
 When received, 2-5-1940

Committee's Minute  
 Assigned 2 (W.T.B) Sph. J.D., C.

J.S. Morrison  
 Engineer Surveyor to Lloyd's Register of Shipping.