

PORT OF SURVEY FOR REPAIRS, &c., OF ENGINES AND BOILERS

17-3-1947 When handed in at Local Office 18-3-1947 Port of Greenock
Survey held at Port Glasgow Date First Survey 15-11-46 Last Survey 11-3-1947

on the Machinery of the Wood, Iron or Steel S/TANKER "KELVINDALE" (see 'hancy Hange')
Gross 284 Vessel built at Middlesbrough By whom Smith's Dock Co Ltd When 1911 6
Net 109 Engines made at North Shields By whom Shields Eng Co Ltd When 1911
Boilers, when made (Main) 1911 (Donkey) ✓
Owners Kelvin Transfers Ltd Owners' Address 308 Clyde Street Glasgow
Managers Shire Transfers Ltd (Glasgow) Port Glasgow Voyage
If Surveyed Afloat or in Dry Dock Afloat & in Drydock
(State name of Dock.) Port Glasgow Drydock

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).
CHARACTER: * for Special Survey. Date of last Survey and of Periodical Surveys.
Years assigned now expired. Machinery and Boiler Surveys (including date of N.B., if any)
Reclassification contemplated

Observations, Opinion, and Recommendation:
The machinery of this vessel is in good
State 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, BS 3,11, B&MS 9,11 or LMC 3,11 or LMC 140 lb., FD, &c.)
L.M.C 3-47, T/S (CL) 11-46
The Circulating Engine Impeller Casing being renewed before end of March 1948 (12 months limit).

one - The vessel placed in drydock, screw shaft drawn inboard & examined along with stem bush, neck ring & gland. liner was found 'screwed' & has now been lightly machined. Stem gland & neck bush were re-riveted & after end of stem bush re-wooded. All underwater fittings & fastenings opened up, examined & found or placed in good order.
Main engine - Opened up & examined cylinders, pistons, rings, valves & their casings, crankshaft journals, main & bottom end bearings, crosshead journals & bearings, guide faces, piston & valve rods, eccentrics & valve motion & attached main engine driven pumps. Thrust shaft, collars & packs examined. All holding down bolts tested & tightened as found necessary. Main Condenser examined & satisfactorily tested with weight of water. Main steam pipe annealed, examined & hydraulically tested to 360 lbs/sq. Main bearing & bottom end bearing found to be cracked, now re-retailed & machined. Bottom of air pump casting was found cracked & permanently repaired by the fitting of a patch. All pump lock machined & brushed to suit. New H.P. piston, valve & M.P. valve piston rings fitted. All bearings adjusted & valves set.
Boiler - opened up & examined internally & externally in its entirety including chocks, ties,

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RECLASSIFICATION 12: 12: 0
Fees applied for 21st MAR 1947
Received by me, 19
GLASGOW 25 MAR 1947
subject
CERTIFICATE WRITTEN



Work Done (continued)

manholes, their fastenings & mountings. Several small areas were found wasted on Centre & Port C.C.'s & these were built up by G.W. 2 C.C. stay found broken was renewed. Mountings were found & placed in good order. Boiler examined under steam & safety valves adjusted to pressure stated above.

Auxiliary Machinery - Circulating Engine - Piston rod found worn below limits & re-messed along with glands & neck ring. New piston ring fitted & engine adjusted. The impeller was removed for examination of casing which was found badly corroded. A new casing was recommended & has been ordered but due to failure of delivery, the existing casing has been patched & examination upon completion was satisfactory. It is recommended that a new impeller casing be fitted before the end of March 1948 (12 month limit) this being made a subject of class.

Auxiliary feed pump - Completely overhauled, new piston & bucket rods & rings being fitted. All valves renewed as necessary & adjusted.

Ballast & Bilge pump - Overhauled & all recommendations complied with.

Winchlass - New crossbeams, piston rods & rings fitted & engine adjusted.

Electrical Equipment

At Bureau request a "Replace" Dynamo Engine & Armature have been fitted

<u>PARTICULARS</u> -	ENGINE MAKERS. - EASTON & JOHNSTONE	TAWNTON ENGLAND.	ENG. NO. 1586
	ARMATURE -	7.5 K.W. 110 VOLTS.	550 R.P.M.
		CONT. RATING.	

All electrical wiring circuits were stripped & vessel has now been completely rewired throughout, a new switchboard & new fuse distribution boxes being also fitted. Electrical work was examined periodically during refit & found satisfactory. A complete resistance reading was taken of all circuits upon completion & all readings found satisfactory.

The Main Engine, Auxiliary Machinery & pumping arrangements were examined under steaming conditions & found in good order.

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