

Rpt. 4b

19/2/59

Date of writing report 26/1/59. Received London LONDON. No. 139538.
Survey held at Stamford, Lincs. In shops Two. First date 8/1/59. Last date 26/1/59.

FIRST ENTRY REPORT ON INTERNAL COMBUSTION MACHINERY

No. in R.B. Name "BLACKBIRD C" Gross tons

Owners Managers Port of Registry Year Month
Hull built at Wivenhoe, Essex. By James. W. Cook & Co. Yard No. 1185. When
Main Engines made at Stamford, Lincs. By Blackstone & Co. Eng. No. M.86069. When 1959. Jan.

Particulars of restricted service of ship, if limited for classification
Particulars of vegetable or similar cargo oil notation, if required
Is ship to be classed for navigation in ice? Is ship intended to carry petroleum in bulk?

The following particulars should be given as fully and as clearly as possible. Where the answer is "No" or "None", say so!

No. of main engines 1. No. of propellers 1. Brief description of propulsion system

MAIN RECIPROCATING ENGINES. Licence Name and Type No. Lister Blackstone EVMGR4 vertical diesel.
No. of cylinders per engine 4. Dia. of cylinders 8 3/4". stroke(s) 11 1/2". 2 or 4 stroke cycle 4. Single or double acting single.

TWO STROKE ENGINES. Is the engine of opposed piston type? If so, how are upper pistons connected to crankshaft?
Is the exhaust discharged through ports in the cylinders or through valve(s) in the cylinder covers?

FOUR STROKE ENGINES. Is the engine supercharged? No. Are the undersides of the pistons arranged as supercharge pumps? No.

TWO & FOUR STROKE ENGINES-GENERAL. No. of valves per cylinder: Fuel 1. Inlet 1. Exhaust 1. Starting 2 in series. Safety 1.
Material of cylinder covers cast iron. Material of piston crowns Alum. alloy. Is the engine equipped to operate on heavy fuel oil? No.

CRANK & FLYWHEEL SHAFTING. Date of approval of torsional vibration characteristics of the propelling machinery system 23/12/58. State barred speed range(s), if imposed

Diameter of journals 6 3/4". Diameter of crankpins Centre 6 1/8". Breadth of webs at mid-throw 7 1/4". Axial thickness of webs 2 25/32".
Crankshaft material Journals EN8. Minimum 40 tons/sq.
Flywheel diameter 40". Weight 2180. lb. Are balance weights fitted? Nil. Total weight. Radius of gyration.

Handwritten signature and date 19.3.59



GENERAL REMARKS

State if the machinery has been constructed and/or installed under special survey in accordance with the Rules, approved plans and Secretary's letters. State quality of materials and workmanship and give recommendations for classification, including any special notation to be assigned. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

This engine, BM90378, has been built under Special Survey from materials manufactured under the Supervision of Surveyors to the Society in accordance with Approved Plans & Rules of the Society. Workmanship throughout is good. In my opinion the engine is Eligible for installation in a Classed vessel.

The above described machinery has been fitted on board the Tank Barge "BLACKBIRD C" at Wivenhoe in a proper manner & found satisfactory when tried at sea on 6th August 1959 under full working conditions.

L. G. B.



W. Waddle

W. WADDLE.

Engineer Surveyor to Lloyd's Register of Shipping.

PARTICULARS OF IDENTIFICATION MARKS (Including Port of origin) of important Forgings and Castings. (Copies of certificates should be forwarded with report.)

RODS BCX 109; BCX 96; BCX 104; BCX 88. Covered by batch forging certificates.

BHAM. C.28068; C.27772; C.28067 & C.26069.

CRANKSHAFT OR ROTORSHAFT J.8999. YA. SHF. WW. LON. 8/1/59.

FLYWHEEL SHAFT

THRUSTSHAFT

GEARING

INTERMEDIATE SHAFTS

SCREW AND TUBE SHAFTS

PROPELLERS

OTHER IMPORTANT ITEMS Cylinder block with liners & heads Lloyd's Test. 100.lb. WW. LON. 8/1/59.

Is the installation a duplicate of a previous case?

If so, state name of vessel

Date of approval of plans for crankshaft 23/12/58.

Straight shafting

Gearing

Clutch

Separate oil fuel tanks

Pumping arrangements

Oil fuel arrangements

Cargo oil pumping arrangements

Air receivers

Donkey boilers

Dates of examination of principal parts:—

Fitting of stern tube

Fitting of propeller

Completion of sea connections

Alignment of crankshaft in main bearings

Engine chocks & bolts

Alignment of gearing

Alignment of straight shafting

Testing of pumping arrangements

Oil fuel lines

Donkey boiler supports

Steering machinery

Windlass

Date of Committee

TUESDAY - 6 OCT 1959

Special Survey Fee £20..0..0d.

Decision

See Rpt. 1.

Expenses

.4..0..0d.

Date when A/c rendered

17 FEB 1959



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