

REPORT ON OIL ENGINE MACHINERY.

No. 19694

29 MAY 1936

Date of writing Report 1st May 1936 When handed in at Local Office 1st May 1936

Port of Grimsby.

No. in Survey held at Lincoln.

Date, First Survey 3rd October 1935 Last Survey 30th April 1936.
 Single
on the Twin
Triple
Quadruple
Screw vessel
Newcastle
Lithgow
By whom built
By whom made
By whom made
Owners
Anglo Saxon Petroleum Co. Ltd.
Port belonging to
London
When built
1936
When made
1936
Boiler No.
When made
1936
Is Refrigerating Machinery fitted for cargo purposes
Is Electric Light fitted
✓
[One Engine - Type 3VCRZ]
Trade for which vessel is intended
✓
L ENGINES, &c. Type of Engines Airless injection, cold starting 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 700 lbs. Diameter of cylinders 8" Length of stroke 10 3/4" No. of cylinders 3. No. of cranks 3.
Is there a bearing between each crank yes.
Kind of fuel used Crude oil.
Revolutions per minute 450 Flywheel dia. 3'-4" Weight 19 cwt. Means of ignition Compression Kind of fuel used Crude oil.
Crank Shaft, dia. of journals as approved. 6" Crank pin dia. 4 3/4" Crank Webs Mid. length breadth 8" Thickness parallel to axis ✓
as fitted 6" Mid. length thickness 2 1/2" Thickness around eye hole ✓
Flywheel Shaft, diameter as approved. 6" Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thrust Shaft, diameter at collars as per Rule ✓ as fitted ✓
Tube Shaft, diameter as per Rule ✓ as fitted ✓ Screw Shaft, diameter as per Rule ✓ as fitted ✓ Is the tube screw shaft fitted with a continuous liner ✓
Bronze Liners, thickness in way of bushes as per Rule ✓ as fitted ✓ Thickness between bushes as per Rule ✓ as fitted ✓ Is the after end of the liner made watertight in the
propeller boss ✓ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓
the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓
two liners are fitted, is the shaft lapped or protected between the liners ✓ Is an approved Oil Gland or other appliance fitted at the after end of the tube
Length of Bearing in Stern Bush next to and supporting propeller ✓
Propeller, dia. ✓ Pitch ✓ No. of blades ✓ Material ✓ whether Moveable ✓ Total Developed Surface ✓ sq. feet
Method of reversing Engines ✓ Is a governor or other arrangement fitted to prevent racing of the engine when de-clutched yes. Means of lubrication
Thickness of cylinder liners 3/4" Are the cylinders fitted with safety valves yes. Are the exhaust pipes and silencers water cooled or lagged with
non-conducting material water If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine ✓
Cooling Water Pumps, No. one. ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
What special arrangements are made for dealing with cooling water if discharged into bilges ✓ Can one be overhauled while the other is at work ✓
Bilge Pumps worked from the Main Engines, No. ✓ Diameter ✓ Stroke ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
Pumps connected to the Main Bilge Line No. and size ✓ How driven ✓ In Pump Room ✓
Ballast Pumps, No. and size ✓ Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size one geared. ✓
Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
Pumps, No. and size:— In Machinery Spaces ✓ In Pump Room ✓
Holds, &c. ✓ Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size ✓ Are the Bilge Suctions in the Machinery Spaces
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes ✓ Are they fitted with Valves or Cocks ✓
Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates ✓ Are the Overboard Discharges above or below the deep water line ✓
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate ✓
How are they protected ✓ Have they been tested as per Rule ✓
What pipes pass through the bunkers ✓ What pipes pass through the deep tanks ✓
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ✓
the arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one
apartment to another ✓ Is the Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓
a-wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
Main Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
Auxiliary Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
Small Auxiliary Air Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
Savouring Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Position ✓
Auxiliary Engines crank shafts, diameter as per Rule ✓ as fitted ✓
RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule ✓
Are the internal surfaces of the receivers be examined and cleaned ✓ Is a drain fitted at the lowest part of each receiver ✓
High Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓
Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓ Actual ✓
Unless, lap welded or riveted longitudinal joint ✓ Total cubic capacity ✓ Internal diameter ✓ thickness ✓
Working Air Receivers, No. ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓ Actual ✓
Unless, lap welded or riveted longitudinal joint ✓
010012-010023-0231

IS A DONKEY BOILER FITTED? /

If so, is a report now forwarded? ✓

Is the donkey boiler intended to be used for domestic purposes only ✓

PLANS. Are approved plans forwarded herewith for Shafting 7.9.36.
(If not, state date of approval)

Receivers ✓

Separate Tanks ✓

Donkey Boilers ✓

General Pumping Arrangements ✓

Oil Fuel Burning Arrangements ✓

SPARE GEAR.

Has the spare gear required by the Rules been supplied yes.

State the principal additional spare gear supplied ✓

Huston & Hornsby, Limited.

The foregoing is a correct description.

R. Onions 30/4/36

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1935 Oct 3. 17. 24. 28. 31. Nov 7. 11. 19. 28 1936 Jan 8. Feb 13. 26. 27 Mar 2. 12. 16. 19. 23. 26. 30 Apr 2. 6. 16. 23. 27. 30
During erection on board vessel - - -
Total No. of visits 26

Dates of Examination of principal parts—Cylinders 27.2.36 Covers 24.2.36. Pistons 13.2.36. Rods ✓ Connecting rods 28.11.36
Crank shaft 8.1.36. Flywheel shaft 8.1.36. Thrust shaft ✓ Intermediate shafts ✓ Tube shaft ✓
Screw shaft ✓ Propeller ✓ Stern tube ✓ Engine seatings ✓ Engines holding down bolts ✓
Completion of fitting sea connections ✓ Completion of pumping arrangements ✓ Engines tried under working conditions 2.4.36.
Crank shaft, Material Sm. steel Identification Mark No 3229C. Flywheel shaft, Material Sm. steel Identification Mark No 3229C.
Thrust shaft, Material ✓ Identification Mark ✓ Intermediate shafts, Material ✓ Identification Marks ✓
Tube shaft, Material ✓ Identification Mark ✓ Screw shaft, Material ✓ Identification Mark ✓

Is the flash point of the oil to be used over 150° F. ✓

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓

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 ✓ Grimsby report No 18653. 3/4 "Inchman

Is this machinery duplicate of a previous case yes. If so, state name of vessel Same type. Now 3 instead of 5 cylinders

General Remarks (State quality of workmanship, opinions as to class, &c.) The workmanship + materials are good.

The engine has been built under Special Survey in accordance with the Rules + Approved plan
Running trials were carried out at the Maker's works under brake load with satisfactory results.

The engine has been built to the order of Messrs Peter Brotherhood, Ltd., Peterborough, for
Messrs J. G. Kincaid + Co., of Greenock.

Now securely fitted on board
H.M. L. Hunter
Greenock

Fitted in Swan
Hunters 1519

Request form attached Guss rps. No 19687.

9/2279/P/IV.5651-36/IV.2.

The amount of Entry Fee .. £ .. : When applied for, .. 19.
Special £ .. : When received, .. 19.
Donkey Boiler Fee :
Travelling Expenses (if any) :
charged in annual fee

Committee's Minute GLASGOW 28 JUL 1936

Assigned See Guss Rpt. No. 20189

H. L. Lidditch.
Engineer Surveyor to Lloyd's Register of Shipping.
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