

Rpt. 4b

REPORT ON OIL ENGINE MACHINERY.

No. 161114

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WEST HARTLEPOOL

MON. 31 DEC. 1923

Date of writing Report 18th Dec 1923 When handed in at Local Office 28th Dec 1923 Port ofNo. in Survey held at Hartlepool
Reg. Book.Date, First Survey 2nd Feb, 1922 Last Survey 18th Dec 1923.Number of Visits 17 + 2nd MOD. continuation of No. 11838on the ^{Single} Twin ^{Triple} Screw vessels

"SYCAMORE"

Tons Net

Master Built at Middlesbrough By whom built Furness S.B.C. Yard No. 31 When built 1923

Engines made at Hartlepool By whom made Richardson & Westgarth Engine No. 2554 When made 1923

Donkey Boilers made at Annan By whom made Cochran & Co Annan Ltd Boiler No. When made 1922

Brake Horse Power Owners Port belonging to

Nom. Horse Power as per Rule 553 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted yes

IL ENGINES, &c.—Type of Engines Diesel (Tosi, R.W.C.) 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 500 lbs. No. of cylinders 6 No. of cranks 6 Diameter of cylinders 24³/₄" 620 m/m. (24.41")Length of stroke 975 m/m. (38.3865") 38³/₈" 125. Means of ignition Compression Kind of fuel used Heavy oil.Is there a bearing between each crank yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 825 m/m.Distance between centres of main bearings 1215 m/m Is a flywheel fitted yes Diameter of crank shaft journals as per Rule 14.61" as fitted 380 m/m 14.96"

Diameter of crank pins 380 m/m Breadth of crank webs as per Rule 19.45" as fitted 620 m/m 24.41" Thickness of ditto as per Rule 8.19" as fitted 190 m/m 7.48"

Diameter of flywheel shaft as per Rule 14.61" as fitted 380 m/m 14.96" Diameter of tunnel shaft as per Rule 9.598" as fitted 10" Diameter of thrust shaft as per Rule 10.078" as fitted 10¹/₂"Diameter of screw shaft as per Rule 10.36" as fitted 12" Is the screw shaft fitted with a continuous liner the whole length of the stern tube yesIs the after end of the liner made watertight in the propeller boss yes If the liner is in more than one length are the joints burned yesIf 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 yesIf two liners are fitted, is the shaft lapped or protected between the liners United States not fitted If without liners, is the shaft arranged to run in oil yesType of outer gland fitted to stern tube metallic packing Length of stern bush 4'-3" Diameter of propeller 12'-0"Pitch of propeller 10'-6" No. of blades 4 state whether moveable no Total surface 50 square feetMethod of reversing Engines reversible Is a governor or other arrangement fitted to prevent racing of the engine when detached yes Thickness of cylinder liners 725.40 m/mAre the cylinders fitted with safety valves yes Means of lubrication forced Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Water cooled If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engineSilencers in funnel yes No. of cooling water pumps 3 ^{1 fresh} Is the sea suction provided with an efficient strainer which can be cleared within the vessel yesCan one be overhauled while the other is at work yes No. of auxiliary pumps connected to the main bilge lines 3 How driven SteamSizes of pumps Two 7'8" x 12" No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room 4 of 3¹/₂"and in holds, etc. One 12'4" x 24" No. of ballast pumps 1 How driven Steam Sizes of pumps 12'4" x 24" singleIs the ballast pump fitted with a direct suction from the engine room bilges yes State size 3¹/₂" Is a separate auxiliary pump suction fitted in Engine Room and size noAre all the bilge suction pipes fitted with roses yes Are the roses in Engine Room always accessible yesAre the sluices on Engine Room bulkheads always accessible none Are all connections with the sea direct on the skin of the ship yesAre they valves or cocks both Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates yesAre the discharge pipes above or below the deep water line above Are they each fitted with a discharge valve always accessible on the plating of the vessel yesAre all pipes, cocks, valves and pumps in connection with the machinery accessible at all times yes Are the bilge suction pipes, cocks and valves arranged so as to prevent any communication between the sea and the bilges yesIs the screw shaft tunnel watertight yes Is it fitted with a watertight door yesworked from Middlesbrough If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork yesNo. of main air compressors 2 No. of stages 3 Diameters 135.550.620 m/m Stroke 300 m/m Driven by Main engine crank shaftNo. of auxiliary air compressors 2 No. of stages 3 Diameters Stroke Driven by Comp'd steam engineNo. of small auxiliary air compressors 1 No. of stages 3 Diameters 34.130.250 m/m Stroke 180 m/m Driven by Aux. Diesel Eng.No. of scavenging air pumps none Diameter Stroke Driven by yesDiameter of auxiliary Diesel Engine crank shafts as per Rule Genoa Report Are the air compressors and their coolers made so as to be easy of access yesIR RECEIVERS:—No. of high pressure air receivers Four Internal diameter 12" Cubic capacity of each 5 cu. ft.Material Steel Seamless, lap welded or riveted longitudinal joint seamless Range of tensile strength 28/32Thickness 3/4" Working pressure by Rules 1500 lb. No. of starting air receivers 9 Internal diameter 36"Total cubic capacity 584 cu. ft. Material Roll'd steel Seamless, lap welded or riveted longitudinal joint DR. DBS. rivetedRange of tensile strength 28/32 thickness 13/16" Working pressure by rules 500 lb. Is each receiver, which can be isolated, fitted with a safety valve as per Rule yesCan the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces accessibleIs there a drain arrangement fitted at the lowest part of each receiver yes

009924-009933-0189 1/2

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SHORT BRIDGE
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Stringer Plat
Second Deck
Str nger Plat

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REVERSED FE

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Bowsprit
Topmasts, Yards
Rigging, Materi
Sails.

IS A DONKEY BOILER FITTED? *yes, two*

If so, is a report now forwarded? *no, at Middlesbrough*

HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS	26.2.22-28.9.22 10-11-22.		K.G. 6	P.T.B.	Made by Franco J
" COVERS	26.2.22-27.7.22 1.8.22-14.10.22.		K.G. 6	P.T.B.	at Legano.
" JACKETS	See Cylinders.				See Genoa report
" PISTON WATER PASSAGES	8.1.23.		K.G. 6.	P.T.B.	-
MAIN COMPRESSORS-1st STAGE	3.1.23-16.2.23	400 lb	K.G. 4	P.B. AL	-
2nd "	16.2.23	250	K.G. 6	A.L.	-
3rd "	3.1.23-2.3.23	1000	K.G. 6	P.B. AL	-
AIR RECEIVERS-STARTING	5.12.22 4.9.1.23	500 lb	700 lb	6285 V.C. 6286 W.M.	Tested at Middle
" INJECTION	9.2.23-17.4.23.	1500	3000 lb		Tested at Sheff
AIR PIPES	18.1.23-10.12.23	1000	2000	R.D.S.	
FUEL PIPES	2.8.23-29.11.23	1000	2200	R.D.S.	
FUEL PUMPS	Genoa. 3.1.23	1000	K.G. 150	P.T.B.	See Genoa repo
SILENCER	14.3.23-3.5.23	✓	20 lb	✓	
" WATER JACKET	✓				
SEPARATE FUEL TANKS	Mdb.	✓	15 ft head water	✓	Tested at Middles.

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

Receivers 28.6.22

Separate Tanks 3.7.22.

SPARE GEAR 1 Cyl. cover complete for main engines with all valves & fitted. 1 complete
of valves, seats, springs & for 1 cyl of main & aux Diesel Eng. & fuel needle valves for 1/2 no 9
of 1 engine. 1 piston complete for main engines. 1 set piston rings for M. Aux D. Engines. 1 co
set of main skew wheels for 1 main engine. 4 top & 4 bottom end bolts for main Eng &
2 top & 2 bottom end bolts & nuts for Aux D. Eng. 4 main bearing bolts & nuts for main
2 ditto for aux D. Eng. 1 set coupling bolts & nuts for crank shaft & 1 set for int. shafts. 1 set rings for each
of M. aux compressors. 2 sets valves for M.
for aux compressors. 1 fuel pump for M.
working parts for aux D. Eng. 1 set valve
all steam driven pumps. Length of M.
for fuel & air delivery. Boiler making
See also detail list of spare gear etc

The foregoing is a correct description.

For RICHARDSONS, WESTGARTH & CO. LIMITED.

L. S. Bony de

Manufacturer.

DIRECTOR & JOINT GENERAL MANAGERS.

Dates of Survey while building	During progress of work in shops--	1922 July 2, 24, 26, 28, 30, 31, 1.8.22, 1.10.22, 1.11.22, 1.12.22, 1.1.23, 1.2.23, 1.3.23, 1.4.23, 1.5.23, 1.6.23, 1.7.23, 1.8.23, 1.9.23, 1.10.23, 1.11.23, 1.12.23, 1.1.24, 1.2.24, 1.3.24, 1.4.24, 1.5.24, 1.6.24, 1.7.24, 1.8.24, 1.9.24, 1.10.24, 1.11.24, 1.12.24, 1.1.25, 1.2.25, 1.3.25, 1.4.25, 1.5.25, 1.6.25, 1.7.25, 1.8.25, 1.9.25, 1.10.25, 1.11.25, 1.12.25, 1.1.26, 1.2.26, 1.3.26, 1.4.26, 1.5.26, 1.6.26, 1.7.26, 1.8.26, 1.9.26, 1.10.26, 1.11.26, 1.12.26, 1.1.27, 1.2.27, 1.3.27, 1.4.27, 1.5.27, 1.6.27, 1.7.27, 1.8.27, 1.9.27, 1.10.27, 1.11.27, 1.12.27, 1.1.28, 1.2.28, 1.3.28, 1.4.28, 1.5.28, 1.6.28, 1.7.28, 1.8.28, 1.9.28, 1.10.28, 1.11.28, 1.12.28, 1.1.29, 1.2.29, 1.3.29, 1.4.29, 1.5.29, 1.6.29, 1.7.29, 1.8.29, 1.9.29, 1.10.29, 1.11.29, 1.12.29, 1.1.30, 1.2.30, 1.3.30, 1.4.30, 1.5.30, 1.6.30, 1.7.30, 1.8.30, 1.9.30, 1.10.30, 1.11.30, 1.12.30, 1.1.31, 1.2.31, 1.3.31, 1.4.31, 1.5.31, 1.6.31, 1.7.31, 1.8.31, 1.9.31, 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