

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office.

64 MAR 1943

Date of writing Report Aug. 28th 1942 When handed in at Local Office 19 Port of Toronto

No. in Survey held at Toronto, Canada Date, First Survey April 11th Last Survey June 2nd 1942

Reg. Book. on the 10,000 ton Cargo Vessel - S.S. "FORT TREMBLANT" (Number of Visits 31) Tons Gross 7128.16
Net 4252.62

Built at Victoria, B.C. By whom built Victoria Machinery Depot Co. Ltd. Yard No. 24 When built 1942

Engines made at Toronto By whom made John Inglis Co. Ltd. Engine No. 83 When made 1942

Boilers made at - By whom made - Boiler No. - When made -

Registered Horse Power - Owners Wartime Merchant Shipping Ltd. Port belonging to -

Nom. Horse Power as per Rule 504 Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted -

Trade for which Vessel is intended -

42 **ENGINES, &c.**—Description of Engines Triple Expansion, Superheat to 575°F. Revs. per minute 76

2 & Dia of Cylinders 24 1/2" x 37" x 70" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3

2 Crank shaft, dia. of journals 13.98" as per Rule 14.25" as fitted Crank pin dia. 14.250" Crank webs 24 1/2" Mid. length breadth 9"H.P.M.P. Thickness parallel to axis 9 1/2"L.P.

1 Intermediate Shafts, diameter 13.98" as per Rule 14.25" as fitted Thrust shaft, diameter at collars 9 1/2" as per Rule 13.98" as fitted 7 5/8" Jour.

0-4 Tube Shafts, diameter - as per Rule - as fitted Screw Shaft, diameter - as per Rule - as fitted Is the tube shaft fitted with a continuous liner -

1-4 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 -

If 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 -

If 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 shaft - If so, state type -

Propeller, dia. - Pitch - No. of Blades - Material - whether Moveable - Total Developed Surface - sq. ft.

Feed Pumps worked from the Main Engines, No. None Diameter - Stroke - Can one be overhauled while the other is at work -

Bilge Pumps worked from the Main Engines, No. 2 Diameter 4.470" Stroke 26" Can one be overhauled while the other is at work yes

Feed No. and size Two 10"x7"x24" 4000 Imp Galls Pumps connected to the Main Bilge Line { No. and size - How driven -

Pumps Independent

Ballast Pumps, No. and size - Lubricating Oil Pumps, including Spare Pump, No. and size -

Are two independent means arranged for circulating water through the Oil Cooler - Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room -

In Pump Room - In Holds, &c. -

Main Water Circulating Pump Direct Bilge Suctions, No. and size - Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size -

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes -

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges -

Are all Sea Connections fitted direct on the skin of the ship - Are they fitted with Valves or Cocks -

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold 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 -

What Pipes pass through the bunkers - How are they protected -

What pipes pass through the deep tanks - Have they been tested as per Rule -

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times -

Is 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 compartment to another - Is the Shaft Tunnel watertight - Is it fitted with a watertight door - worked from -

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7140 Sq. Ft. (3 boilers)

Which Boilers are fitted with Forced Draft Yes Which Boilers are fitted with Superheaters All three boilers

No. and Description of Boilers Three Scotch Marine Working Pressure 220 lbs. Sq. In.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? No.

IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded? -

Can the donkey boiler be used for domestic purposes only - N.E.M.No. 694 6 Oct. 1941 N.Yk. Donkey Boilers -

PLANS. Are approved plans forwarded herewith for Shafting - Main Boilers John Heck Auxiliary Boilers -

(If not state date of approval) Lloyds approval 15.11.40 per C.M.

Superheaters - General Pumping Arrangements - Oil fuel Burning Piping Arrangements -

SPARE GEAR.

Has the spare gear required by the Rules been supplied yes

State the principal additional spare gear supplied 1 set. Piston Rings & Springs for H.P.-M.P.-L.P. Pistons and H.P. Piston Valve, top & bottom. 1 set. Pads for Ahead Face of Thrust Bearing. 2. Bottom End Bolts & Nuts. 4. Top End Bolts & Nuts. 2. Main Bearing Bolts & Nuts. 6. Coupling Bolts & Nuts. 1 Bottom End Bearing (2 Halves). 2 Pairs. Top End Bearings. 1. Set Bottom End Bearing Liners. 1 Set. Metallic Packings for H.P.-M.P.-L.P. Piston Rods & Valve Spindles. 1 Set. (6) Air Pump Head Valve Discs. (Top & Bottom). 4 Pressure Glasses- 4 Springs - 4 Guide Rings - 8 Gaskets - 1 Pump Unit Complete for Lubricator. 1 Glycerine Gun. 1 (Valve & Seat for S.O.N.R. Valve) & Lift Valve on Suct. & Disch. Chests 3 Carrying Bars for Crossheads. 1 Lifting L.b. for Main Bearings. 1 Wearing Gauge for Crankshaft. (1 Set of Spanners & Wrenches as per specification).

The foregoing is a correct description

The John Inglis Company Limited

Manufacturer.

Date Aug 31/42 By Jas McKelvie© 2021
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Dates of Survey while building

During progress of work in shops - -	April	11, 15, 16, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30
	May	1, 2, 7, 9, 11, 12, 13, 15, 16, 19, 21, 22, 25, 28, 29, 30
	June	2

1942

During erection on board vessel - - -		

Total No. of visits 31 in shops.

	H.P.	M.P.	H.P.	M.P.	H.P.	M.P.		
Dates of Examination of principal parts — Cylinders	11.5.42	15.5.42	Slides	13.5.42	13.5.42	Covers	11.5.42	15.5.42
Pistons	13.5.42	Piston Rods	28.4.42	Connecting rods	28.4.42			
Crank shaft	20.4.42	Thrust shaft	1.6.42	Intermediate shafts	-			
Tube shaft	-	Screw shaft	-	Propeller	-			
Stern tube	-	Engine and boiler seatings	-	Engines holding down bolts	-			
Completion of fitting sea connections	-							
Completion of pumping arrangements	-	Boilers fixed	-	Engines tried under steam	-			
Main boiler safety valves adjusted	-	Thickness of adjusting washers	-					
Crank shaft material	O.H.Steel	LLOYDS 5156 J.M.K.23.1.42	5048 J.M.K.4.12.41	LLOYDS 1070 J.K.H.2.1.	MUL			
Intermediate shafts, material	-	Identification Mark	J.B.20.4.42	Thrust shaft material	O.H.Steel	Identification Mark	J.B.1.6.42	J.M.
Screw shaft, material	-	Identification Mark	-	Tube shaft, material	-	Identification Mark	-	J.M.
Is an installation fitted for burning oil fuel	-	Steam Pipes, material	-	Test pressure	-	Date of Test	-	Total H
Have the requirements of the Rules for the use of oil as fuel been complied with	-	Is the flash point of the oil to be used over 150°F.	-					No. and
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	-					Tested b
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with	-							Area of
Is this machinery duplicate of a previous case	yes	If so, state name of vessel	N.E.M. TYPE					Area of
General Remarks (State quality of workmanship, opinions as to class, &c.)	The Main Engine was built under the Special							In case
	Survey of the Society's Surveyors to the requirements of the Rules and in accordance with the							Smallest
	approved plans.							Smallest
								Largest
								Thicknes
								Long. s
								Percenta
								Percenta
								Thickne
								Materia
								Length
								Dimens
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								Tube
								Mean
								Girder
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								at cent
								in each
								Tensile
								Pitch
								Front
								Thickn
								Pitch
								Main
								Diam
								Screw
								Diam

Certificate to be sent to

The amount of First Entry Fee ... £ 30.00 : When applied for, 14.12.42 YCR.

Special Survey ... £ 267.00 : When received, RB.

Donkey Boiler Fee ... £ 10.00 :

Travelling Expenses (if any) £ 10.00 :

Committee's Minute ... FRI. 5 MAR 1943

Assigned ... See YCR. 28 5850

Engineer Surveyor to Lloyd's Register of Shipping. F.B. Barker



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