



#### DESCRIPTION.

A SINGLE SKEW MOTOR RIVER & ESTUARY TUGGER OF RAISED QUARTER DECK TYPE WITH RAISED STEER & CRUISER STERN BUILT TO LLOYD'S CLASS 100 A1 BY H. ROSS TANKER F.D. DRIVE 150 H.P. FOR SERVICE ON THE RIVER TAMER TO COLCHESTER.

#### MACHINERY.

THE VESSEL IS PROPULSED BY A KLOCKNER HUMBOLDT & DEUTE TYPE R.V. 8.515 OF 660 S.H.P. AT 380 R.P.M. TWO 35 A.V. RUSSELL GENERATORS ALSO DRIVING TWO STATION & PUMP CARGO PUMPS ELECTRO HYDRAULIC STEERING GEAR SUPPLIED BY J. & W. L. LTD. ELECTRIC CAPSTAN & WINDLASS SUPPLIED BY T. & B. LTD. & SONS (BRISTOL) LTD.

#### SANITARY & FRESH WATER SYSTEM.

THE DOMESTIC HOT WATER SUPPLIED TO THE ACCOMMODATION COMES FROM A WATERHEATER IN THE ENGINE ROOM. SALT WATER IS SUPPLIED FROM A TANK ON THE HOUSE TOP & THE FRESH WATER IS SUPPLIED UNDER PRESSURE FROM A TANK IN THE ENGINE ROOM.

#### HEATING & VENTILATION.

THE ACCOMMODATION IS HEATED BY ELECTRIC RADIATORS THE CARGO OIL TANKS ARE HEATED BY STEAM COILS. THE ACCOMMODATION IS FITTED WITH NATURAL VENTILATION. ENGINE ROOM VENTS LONGEST OF 1-1/2 DIA. MECHANICAL SUPPLY & 2-1/2 DIA. NATURAL EXHAUST FRENCH TYPE VENTS.

#### DECK COVERING.

THE UNDERDECK LINGERS IN ACCOMMODATION IS 450 MM MARBLE LINO, 450 OVER 1/4 MINIMUM THICKNESS UNDERWAY TANKS IN GALLEY, SHOWER, PROVISION ROOM & W.C. 1/2" F. F. RUBBER & WHITE NON-SLIP TILES Laid ON 2" IMPROVED CEMENT WITH LOOSE TILES. DECK IN BATTERY ROOM, DRIVING ROOM, OILWATER LOCKER & OILS STORE Laid WITH 1 1/2" THICK CEMENT.

#### INSULATION.

1/2" TYPE FIRE UNDER DECKHOUSE & WHEELHOUSE TOP Faced WITH B. WOOD EXCEPT IN GALLEY WHERE IT IS Faced WITH SHEET METAL. BULKHEADS JOINTS TO ENGINE CASING IN CAPTAIN'S & CHIEF ENGINEER'S CHAINS SOUND INSULATED WITH 1" FINE GLASS BEHIND LINING. EXTERNAL BULKHEAD IN PROVISION ROOM INSULATED WITH 1" THICK FIBRE GLASS.

#### SIDELIGHTS & WINDOWS.

12 DIA. SIDELIGHTS IN CAPTAIN'S COCKPIT ENGINEER'S, MATE'S, 2ND ENGINEER'S, HANDS CABIN, GALLEY, MESS & ENGINE ROOM Sidelight. 7 DIA. SIDELIGHTS IN PUMP ROOM Sidelight. 8 DIA. SIDELIGHTS IN DECK STORE, PROVISION ROOM, W.C., GALLEY Sidelight & PUMP ROOM COMPARTMENT. 6 DIA. SIDELIGHTS IN WOOD WEATHER DOORS. CARRIAGE TYPE SLIDING WINDOWS IN WHEELHOUSE.

#### ABBREVIATIONS.

B.P.	BETWEEN PERPENDICULARS
B.M.	BENT
C.V.	COIL VENTS
DIA.	DIAMETER
OK.	DECK
F.C.T.	FOLDING CHART TABLE
F.S.	FRAMES
F.S.	FOLDING SEAT
1/2 H.	1/2 INCH
4 1/2 R.	4 1/2 ROUNDER
OL.	OIL
Q.T.H.	ON TANK HEAT
P.S.	PORT & STARBOARD
RAD.	RADIATOR
REFRIG.	REFRIGERATOR
S.E.	SINGLE EXHAUST
T.V.	TELEVISION
V.T.	VENT TRUNK
V.C.	VENT COIL
V.S.	VENT SLOPE
W.T.H.	WATER TIGHT HATCH
W.T.	WATER TIGHT
W.T.B.	WATER TIGHT BULKHEAD
W.T.D.	WATER TIGHT DECK

GENERAL ARRANGEMENT.

HENRY ROSS LIMITED.

YARD No. 181.

"AS BUILT."

"N.T. TORO" ★

LETH RPT. No. 25047.

