

MT LIENI

A TWIN SCREW AZIMUTHING ULSTIEN Z-PELLER DRIVE TUG CONSTRUCTED IN SINGAPORE BY TAI KONG TRADING COMPANY

BUILT: 1991

DIMENSIONS:

Length O.A 28.00 m
Length B.P 24.70 m
Breadth Moulded 9.80 m
Depth Moulded 4.50 m
Draft Designed 3.50 m

CLASSIFICATION:

RINA C-Hull, Mach, Tug, Unrestricted Navigation
G.R.T. 267 tonnes

PROPULSION :

2 x Caterpillar model 3516 TA marine propulsion engines, each developing 1,410 BHP continuous at 1,200 RPM Made in U.S.A.

Propulsion Units

2 x Ulstein Z-Drive 1350 H rudder propeller type azimuthing thruster units with nozzles, driven through cardan shafts. Units are fitted with manganese bronze 4 bladed propellers 2100 mm diameter and combi-lever type control units.

PERFORMANCE:

Free Running Speed: 12 knots
Ballard Pull: 35 tonnes

AUXILIARIES:

2 x "Cat / Stamford" Model 3304 IMA MES marine type generator sets 380 volts, 3 phase, 50 cycles, 2 x 100 kVA, 1,500 rpm made in U.S.A.

ACCOMMODATION:

Single berth cabin for Master, single berth cabin for Engineer both situated on main deck, four-double berth crew cabins situated below main deck.

DECK EQUIPMENT

WINDLASS/MOORING WINCH

One (1) unit "Plimsoll Robertson" electric-hydraulic anchor windlass/winch, chain capacity 275 m x 19 mm x 13 m/min. Rope winch capacity 100 m x 72 mm nylon rope at 60 m/min brake 50 tonnes. Two (2) remote control consoles mounted, one (1) on forward control desk of wheelhouse and the other at forward of boat deck.

CAPSTAN

One (1) unit "KOYO" 3 tonnes electric capstan.

TOW HOOK

Mampaey disc type 45 tonnes SWL towing hook fitted with a pneumatic quick release device.

FIRE FIGHTING & OIL POLLUTION SYSTEM:

FIRE MONITORS

Three (3) manually operated foam/water fire fighting monitors. One monitor has a capacity of 6000 l/min and the other two (2) monitors have a capacity of 3000 l/min at 130 m head.

FIRE PUMP /ENGINE

Caterpillar 3408 TA marine diesel engine (510 bhp) driving a fire fighting pump having a capacity of 720 m³/hr at 130 m head.

OIL DISPERSANT SYSTEM

Comprised of a Desmi dispersant pump having a capacity of 50 m³/hr at 110 m head, dispersant tank having a capacity of 11 m³ and two (2) x 5 metres spray booms each fitted with five (5) dispersant nozzles supplied via proportioning educators.

AUXILIARY EQUIPMENT:

CO₂ FIXED FIRE EXTINGUISHING SYSTEM

The vessel is fitted with a Halon 1301 fire suppression system in the engine room.

MARPOL EQUIPMENT SOLAS 73-78 SEWAGE PLANT

One (1) set "TAIKQ KIKAI" sewage treatment unit model SBT 15, capacity up to 15 persons.

OILY WATER SEPARATOR

One (1) unit oily water separator model "TAIKO" UST-05. Capacity 0.5 m³/hr.

BILGE / BALLAST PUMPS

Two (2) sets Bilge/Ballast pumps manufactured by Desmi type S70.50.175 with a capacity of 80 m³/hr at 28 m head.

AIR COMPRESSORS

2 sets Atlas Capco air compressors Type T 730-11 working pressure 30 bar (435 psi) displacing 4.5 m³/min.

ELECTRONICS:

AUTO PILOT

One (1) set "Comnav" Autopilot.

RADIO V.H.F.

One (1) set Furuno VHF type FM 2510 and one (1) set Sailor VHF type RT 2048.

RADIO S.S.B.

One (1) set Furuno S.S.B. Radio telephone 150W. Up to 64 channels. Model FS1500.

MARINE RADAR

One (1) set Furuno 48 miles range compact high performance, daylight bright, model 1940.

ECHO SOUNDER

One (1) set Furuno depth ranges to max 640 m, model FE 6200.

SPEED LOG

One (1) set Furuno model DS - 70 Doppler speed log with speed ranges: Forward 0-30.0 knots, astern 0-10.0 knots.

EPIRB

Tron 40s

TANK CAPACITIES:

FUEL OIL

Port & starboard aft:	27.82 m ³
Port & starboard fwd:	53.14 m ³
Port & starboard daily service:	7.90 m ³
Port & starboard double bottom:	<u>23.64 m³</u>
Total:	112.50 m ³

BALLAST TANKS

Forepeak:	34.10 m ³
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SERVICE TANKS

Foam tank centre:	9.68 m ³
Oil dispersant tank centre:	12.16 m ³
Dirty oil tank:	2.39 m ³

Fresh Water:

Port & starboard fresh water:	24.74 m ³
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