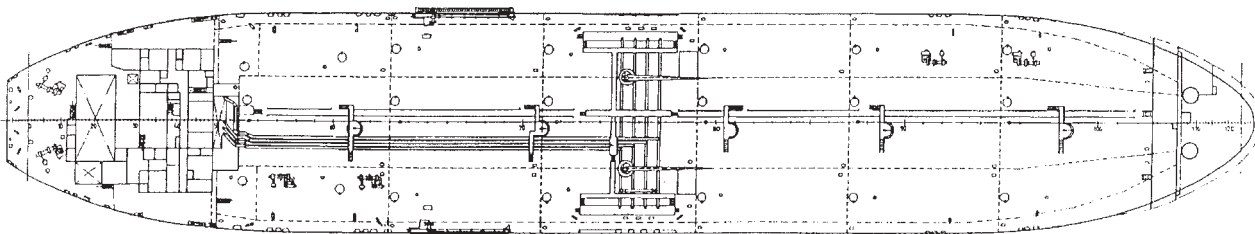
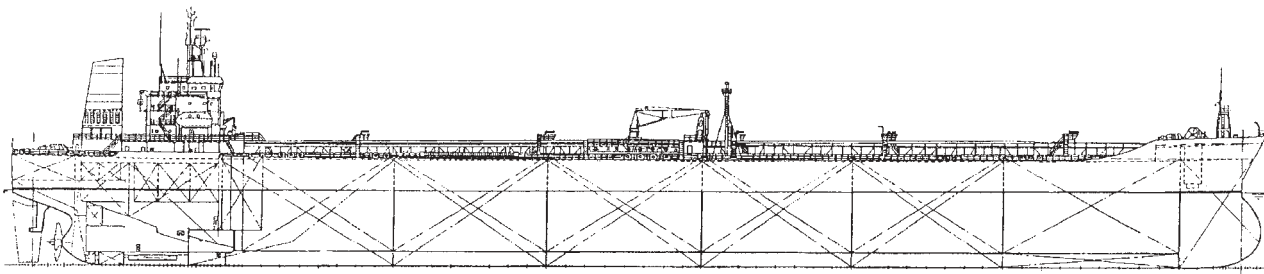


Oil Tanker

111,809 / 101,770 DWT



Name:	m/s UNISINA	Lenght over all	246.76 m
Owner / Flag:	Unisina Navigation Co. / Liberia	Length btw perp.	238.00 m
Builder / Yard:	Shipyards 3.MAJ / 661	Breadth moulded	42.48 m
Delivered:	1994	Depth moulded	20.70 m
Classification:	LRS ∇ 100 A1 Oil Tanker (Duble hull) ∇ LMC, UMS, IGS, COW, PL, SBT	Draught design	14.45 m
Designed by:	Shipyards 3.MAJ	Draught scantling	15.52 m
		Deadweight at draught 14.45 m	100,425 t
		Deadweight at draught 15.52 m	110,461 t
		Gross tonnage	58,091

Main engine: 3.MAJ – SULZER 5 RTA 72
MCR: 10,550 kW / 78 rpm
Trial speed at draught of 14.45 m and 9,495 kW (90% MCR) 14.45 knots

Capacities:

Cargo 121,329m³
Slop tanks 2,747 m³
Loading / unloading time: abt. 15.5 hours

Provisions:

Heavy fuel oil 2,745 m³
Diesel fuel oil 282 m³
Lubrication oil 119 m³
Fresh water 619 m³

Ballast water 38,757 m³
HFO consumption of M.E. 38.0 t / 24 hours

The UNISINA is a single screw, single deck and double hull vessel with engine room and accommodation superstructure aft, intended mainly for carriage of crude oil (up to 1.05 t/m³ spec. gravity) and foreseen for simultaneous carriage of 4 segregated oil cargoes.

Hull is made of mild and HT shipbuilding steel.

Cargo loading/unloading system provides simultaneous handling of each segregation.

Steam plant provides driving of cargo pumps and heating of cargo through pipe coils.

Cargo temperature increasing from 44 deg. C to 66 deg. C needs 4 days at outside air temperature of 2 deg. C and sea temp. of 5 deg. C.

Cargo tanks ventilation is performed by centralized system with pressure/vacuum valves at each tank. Centralized and remote control of cargo handling and temperature monitoring is provided.

Fixed washing devices of closed type are provided at each tank using preheated sea water.

Cargo equipment:

- Four cargo pumps, vert. centrifugal type, driven by steam turbines of 2,000 m³/h at 15 bar head each.
- One stripping pump, steam piston type of 250 m³/h at 15 bar cap.
- One ejector of 650 m³/h at 2.5 bar capacity.
- Steam coil heating 8 bar system.
- Washing sea water system with steam heater of 360 m³/h, 8 bar capacity (heating water from 45 deg. C up to 80 deg. C)
- Inert gas system of 10,000 m³/h capacity.

Steam plant:

- Two boilers, oil fired, 18 bar, cap. 30 t/h steam each.
- One comp. boiler, 8 bar, cap. 2.5 t/h oil fired + 1.8 t/h exhaust gas heated sections.

Auxiliary engines plant:

- Three el. gen. sets, 60 cycles, 1,050 kVA, D.M. driven, each.
- One emergency el. gen. set, 60 cycles, 200 kVA, D.M. driven.

