100000 dwt crude oil carrier

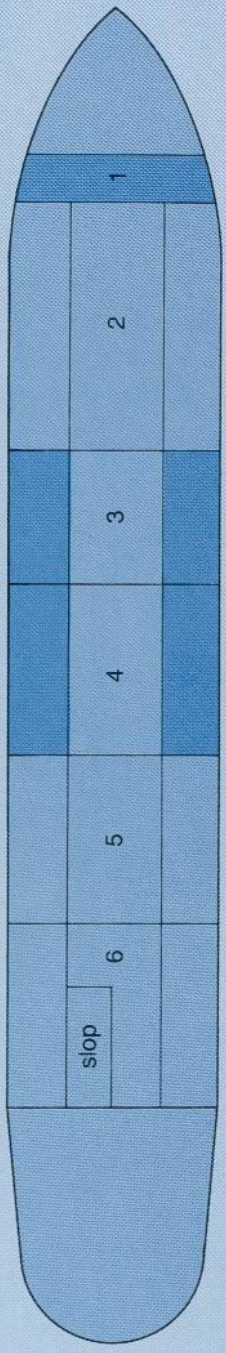
m.t. **Niso**

A segregated ballast tanker (SBT) designed to carry crude oil. Cargo is carried in the centre and wing tanks. The system incorporates a free flow arrangement for the centre tanks, which allows segregation of 2 similar grades

There are four manifold connections linked to two main deck and tank bottom lines. The vessel has two main cargo pumps and an electric driven pump, for Crude Oil Washing without reduction of the vessels discharge ability.

Principal Particulars	
Design dwt:	100,000 tonnes
Design draft:	13.25 metres (43ft. 6in).
Length overall:	265.18 metres (870ft. 1in)
Beam (extreme):	42.09 metres (138ft. 1in.)
Depth (moulded):	20.20 metres (66ft. 3in)
Height (overall):	48.46 metres (159ft. 0in) keel to highest fixed point.
Year Built & Classification	
Year:	1966
Classification:	Lloyds +100 A1 oil carrier c.c. + LMC
Tonnages	
Gross Registered Tonnes:	61178
Net Registered Tonnes:	35180
Suez Net Tonnes:	57063
Panama Net Tonnes:	N/A
Lightship:	19607 Tonnes
Cargo Carriage Features	
Total Capacity 98%:	All cargo tanks. 111,309 cubic metres. (700,112 US Barrels)
Number of Grades:	2
Inert Gas System:	Yes, including Crude Oil Wash capability.
Cargo Heating:	Slop tank only, by coils in tank.
Tank Coating System:	none
Cargo Pumps:	2 centrifugal main cargo pumps,each 3,200 m3/hr. 2 reciprocating stripping pumps,each 300 m3/hr. 1 Electric driven COW pump, 600 m3/hr.

Tank Plan (not to scale)



Cargo Tank Capacities

Tanks	Cu. metres 98%.
No.2C	12645
No.3C	15860
No.4C	8651
No.5C	11535
No.6C	9946
slop tk.	1584
No.2ws	19114
No.5ws	17735
No.6ws	16511

Deadweight Scale (Approximate figures)

Draft (Metres)	DWT(tonnes)	Displacement(tonnes)	TPC
15.48 (Scantling)	121294	140901	97.8
15	116845	136452	97.4
14	106700	126307	96.5
13	97439	117046	95.6
12	86669	106276	94.6
11	78312	97919	93.8
10	69066	88673	93.0
9	59642	79249	92.4
8	50675	70282	91.8
7	41556	61163	91.2
6	32209	51816	90.7
5	23318	42925	90.1

Freshwater allowance 359mm

Manifold Connections

Number and Size:	4 x 16"
Type of Flange:	STEEL
Reducers,Number and Sizes:	4 X 16"-12", 4 X 16"-10", plus other sizes.
Bow to Centre of Manifolds:	133.0 metres (436ft. 4in)
Height Above Waterline:	on SWDT draft 8.98 metres. on Ballast draft 15.76 metres.

Ballast Arrangements	
Total Capacity of Ballast Tanks:	49349 cubic metres.
Location & Type:	No.1C,Nos.3&4 wings; SBT
Ballast Pumps:	1 centrifugal pump, 1600 m3/hr.
Mooring Equipment	
Number & Location of Winches:	8; 3 foredeck,1 main deck forward,1 maindeck aft and 3 on the poop.
Brake Capacity:	67 tonnes
Moorings:	Wires on drums 10 x 280m x 44mm, 100 tonnes. Ropes, First ropes 2 x 320m x 72mm, 80 tonnes. Polyprop 8 x 220m x 72mm, 80 tonnes.
Length of Anchor Cable:	12 shackles on each side.
Number & Type of Bowstopper:	1 AKD stopper S.W.L. 180 tonnes.
Cranes/Derricks	
Hose Handling:	2 x 10 tonnes.

Particulars believed to be correct but not guaranteed.

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