

69500 dwt Crude and/or Product Carriers

m.t. **Zafra**

m.t. **Zaphon**

m.t. **Zaria**

m.t. **Zidona**



These vessels are capable of carrying and segregating up to six grades of crude and/or products, including heated cargoes and some Marpol Annex II substances.

Cargo is carried in 6 sets of cargo tanks, each set consisting of a port and a starboard tank. Additionally there are two slop tanks. All tanks are fitted with submerged deepwell pumps, and are coated with a high performance epoxy paint system, providing efficient cargo handling capability.

The sets of tanks can be loaded or discharged on dedicated manifolds. The six individual manifold lines are fitted with a number of crossover lines, allowing flexible parcel handling.

Segregated Ballast is carried in full protective location wing and double bottom tanks. The vessels are designed for transits of the Panama Canal.

### Principal Particulars

Summer dwt:	69,000 tonnes.
Summer draft:	13.898 metres (45ft. 7in.).
Length overall:	228.6 metres (750ft. 0in.)
Beam (extreme):	32.24 metres (105ft 9in.)
Depth (moulded):	21.6 metres (70ft. 10in.)
Height (overall):	48.4 metres (158ft. 10in.) Keel to highest fixed point

### Year Built & Classification

Year:	1989
Classification:	Det Norske Veritas +A1 Tanker for oil & caustic soda, EO,W1-OC.

### Tonnages

Gross Registered Tonnes:	43414
Net Registered Tonnes:	20078
Suez Net Tonnes:	39575
Panama Net Tonnes:	34446
Lightship:	14830 Tonnes.

### Cargo Carriage Features

Total Capacity 98%:	All cargo tanks. 88,631 cubic metres (557,400 US barrels.)
Number of Grades:	6
Inert Gas System:	Yes, with Crude Oil Washing capability.
Cargo Heating:	Yes, by exchangers on deck and slop tank coils
Tank Coating System:	High performance Epoxy
Cargo Pumps:	12 submerged deepwell pumps,each 860 m <sup>3</sup> /hr. 2 submerged deepwell pumps,each 250 m <sup>3</sup> /hr. 2 Tankcleaning pumps.



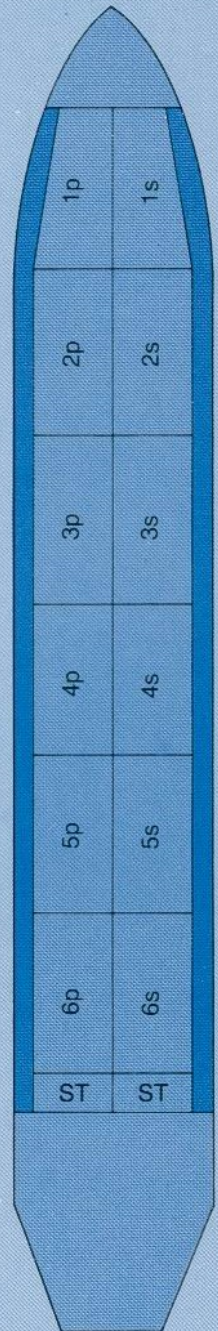
**Cargo Tank Capacities**

Tanks	Cu. metres 98%
No.1p	5819
No.1s	5791
No.2p	7539
No.2s	7525
No.3p	7597
No.3s	7584
No.4p	7597
No.4s	7584
No.5p	7597
No.5s	7584
No.6p	7282
No.6s	7284
slop tk p	924
slop tk s	924
Total	88631

**Deadweight Scale (Approximate figures)**

Draft (Metres)	DWT(tonnes)	Displacement(tonnes)	TPC
summer	69,500	84,330	66.3
13	63,500	78,330	65.7
12	57,000	71,830	65.1
11	50,500	65,330	64.4
10	44,000	58,830	63.5
9	37,600	52,430	62.6
8	31,500	46,330	61.8
7	25,400	40,230	61.1
6	19,200	34,030	60.4
5	13,200	28,030	59.9

Freshwater allowance 289mm



### Manifold Connections

Number and Size:	6 x 14"
Type of Flange:	ANSI 150
Reducers, Number and Sizes:	8", 10", 12", 16", 20".
Bow to Centre of Manifolds:	115.1 metres.
Height Above Waterline:	on SWDT draft 9.5 metres on Ballast draft 18.5 metres

### Ballast Arrangements

Total Capacity of Ballast Tanks:	28,180 cubic metres.
Location & Type:	Six wing tanks and double bottoms, fore peak, aft peak. Segregated ballast.
Ballast Pumps:	2 centrifugal pumps, each 1100 m <sup>3</sup> /hr.

### Mooring Equipment

Number & Location of Winches:	6; 2 foredeck, 1 maindeck forward, 1 maindeck aft and 2 poop.
Brake Capacity:	40 tonnes.
Moorings:	12 x 62mm x 220m x 60 tonne.
Length of Anchor Cable:	12 shackles each side.
Number & Type of Bowstopper:	Tongue type stopper 100 tonne S.W.L.

### Cranes/Derricks

Hose Handling:	15 tonne S.W.L. crane.
Stores Handling:	5 tonne gantry crane.

Particulars believed to be correct but not guaranteed.

date: Sept 1989.



