

84,000 mt dwt clean/dirty product/crude oil carriers

m.t. **Solaris**

m.t. **Spectrum**

m.t. **Stellata**



These vessels are fitted with protective location segregated ballast tanks (SBT). They are capable of carrying crude oil and refined petroleum products, including heated cargoes. Each vessel being certified to carry oil-like chemicals, as defined in Marpol Annex II.

Cargo is carried in centre tanks, which are all fully coated with an epoxy paint system. There are three slop tanks, providing considerable flexibility, these tanks are also fully coated with an epoxy paint system.

The tankers are fitted with individual lines and submerged pumps for each tank, allowing carriage of up to 10 grades with minimal pipeline admixture.

There are 4 main deck lines thus allowing the segregation of 4 non-compatible grades. These may be loaded and discharged simultaneously, thus providing high port turn round efficiency.

Cargo heating is by means of heat exchangers on deck, except in the slop tanks, where heating coils are fitted. The vessels also feature dual tank cleaning lines and dual inert gas mains. Allowing the composite carriage of crude oil and black/white products.

Principal Particulars

Design dwt:	83660 Tonnes (at SG 0.75).
Design draft:	12.21 metres (40ft. 1in.).
Length overall:	244.5 metres (802ft. 2in.).
Beam (extreme):	42.67 metres (140ft. 0in.).
Depth (moulded):	19.8 metres (65ft. 0in.).
Height (overall):	48.0 metres (157ft. 6in.) keel to highest fixed point.

Year Built & Classification

Year:	1985
Classification:	Lloyds + 100 A1, oil carrier, +LMC, UMS. IGS COW, SBT,SPM.

Tonnages

Gross Registered Tonnes:	56456
Net Registered Tonnes:	32733
Suez Net Tonnes:	54967
Panama Net Tonnes:	N/A
Lightship:	17,270 Tonnes.

Cargo Carriage Features

Total Capacity 98%:	All cargo tanks. 109276 cubic metres. (687,325 US Barrels)
Number of Grades:	4
Inert Gas System:	YES, Dual main, with Crude Oil Wash capability.
Cargo Heating:	To 66 centigrade, by deck exchangers.
Tank Coating System:	High performance Epoxy.
Cargo Pumps:	8 High pressure submerged cargo pumps, each 1,625 m ³ /hr, one per centre tank. 3 Similar pumps, each 450 m ³ /hr, one per slop tank.

Cargo Tank Capacities

Tanks	Cu. metres 98%.
No.1C	10365
No.2C	13515
No.3C	13530
No.4C	13530
No.5C	13530
No.6C	13530
No.7C	13531
No.8C	12107
slop tk p	2139
slop tk c	1360
slop tk s	2139
Total	109276

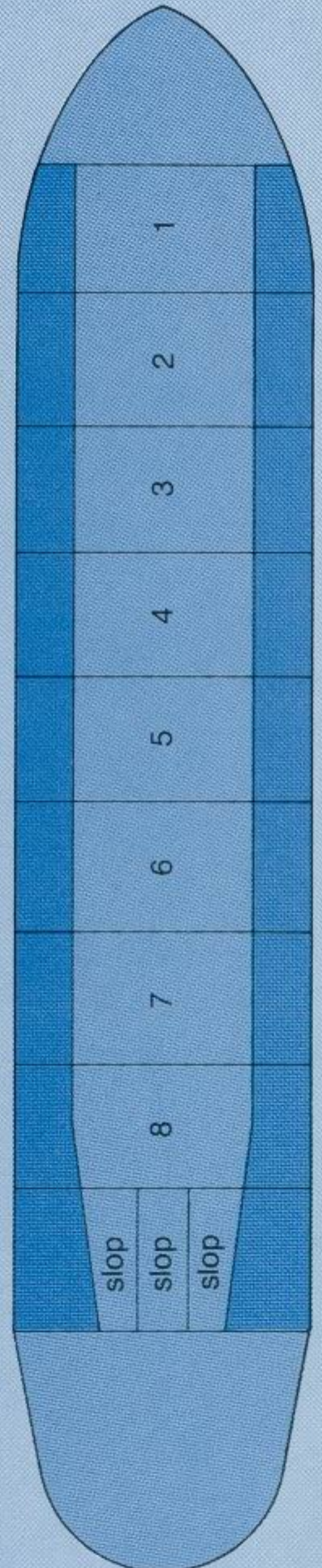
Deadweight Scale (Approximate figures)

Draft (Metres)	DWT(tonnes)	Displacement(tonnes)	TPC
14.62 (Scanding)	105,433	122,703	91.2
14	100,212	117,062	90.7
13	91,185	108,035	89.9
12	82,254	99,104	88.8
11	73,422	90,272	87.8
10	64,683	81,533	87.0
9	56,026	72,876	86.2
8	47,440	64,290	85.6
7	38,912	55,762	85.0
6	30,445	47,295	84.3
5	22,049	38,899	83.5

Freshwater allowance at design dwt = 284mm

Manifold Connections

Number and Size:	4 x 16"
Type of Flange:	Steel ANSI 150
Reducers, Number and Sizes:	4 x 16"-12", 4 x 16"-10", 4 x 16" x 8"
Bow to Centre of Manifolds:	122.8 metres (403ft. 0in).
Height Above Waterline:	on Design draft 9.69 metres. on Ballast draft 14.9 metres.



Ballast Arrangements

Total Capacity of Ballast Tanks:	41,515 cubic metres.
Location & Type:	Wing tanks, SBT.
Ballast Pumps:	2 High pressure submerged pumps located in Nos 7 wings, each 1,500 m ³ /hr.

Mooring Equipment

Number & Location of Winches:	2 windlass, 4 winches forward. 4 winches aft.
Brake Capacity:	65 tonnes.
Moorings:	Wires 4 x 220m x 40mm , 84.8 tonnes. Ropes 14 x 220m x 72mm, 100 tonnes. 6 x 180m x 52mm , 55 tonnes.
Length of Anchor Cable:	13 shackles each side.
Number & Type of Bowstopper:	2 x AKD , 200 tonne S.W.L.

Cranes/Derricks

Hose Handling:	1 X 15 Tonnes S.W.L. Crane.
Stores Handling:	1 X 8 Tonnes S.W.L. Mono rail hoist.
Particulars believed to be correct but not guaranteed.	

date: Sept 1989.

