dsec
PC-1
Product /Chemical Tanker
NO SMOKING
Ship construction by
GENERAL DYNAMICS
nassco

PC-1 Product / Chemical Tanker
Fact Sheet

Principal Characteristics

Length O.A. .....183.00 m
Length B.P .....174.00 m
Breadth, mld ..... 32.20 m
Depth, mld .....19.00 m
Design draft, mld (T_d).....11.80 m
Scantling draft, mld (T_s).....12.80 m
Deadweight .... at design draft of 11.80 m 43,300 mt
..at scantling draft of 12.80 m 48,400 mt

Classification ..... ABS

Capacities (100% Full)

Cargo tanks incl. slop tanks .....53,500 m^3
Ballast tanks incl. peak tanks .....23,400 m^3
H.F.O tanks incl. sett. and serv. ..... 1,220 m^3

Main Engine

Type ..... B&W 6S50 MC
MCR ..... 11,640 PS x 127.0 rpm
NCR ..... 10,480 PS x 122.6 rpm

Speed, F.O.C. & Cruising Range

Service Speed .....14.8 knots at T_d
Daily F.O. consumption ..... 31.3 mt/day
Cruising Range .....10,000 N.M.

.

Complement

Total ..... 30 Persons
Captain Class 2
Officer Class 12
Crew Class 16

Accommodation

Deck house ..... European style, 5 tiers
Lifeboat ..... 2 x Enclosed, F.R.P. construction

Hull Structure

Cargo area to be of double hull construction
All cargo and ballast tanks to be strengthened
for partial filling
Corrugated bulkheads in cargo area

Cargo and Ballast System

No of cargo segregations .....Six (6)
Deepwell cargo pump
12 x Centrifugal, vertical, submerged,
hyd-motor driven, 600 m^3/h x 125 mTH

Deepwell ballast pump
2 x Centrifugal, vertical, submerged
hyd-motor driven, 1,000 m^3/h x 25 mTH

Painting

Painting .....Total DFT (microns)
Bottom/boottop
2 x Anti-Abrasive Epoxy 250
2 x Self Polishing Anti Fouling 250

Weather deck
1 x Epoxy primer H.B. 150
1 x Epoxy finish 200

Cargo tanks
3 x Pure epoxy 300

Ballast tanks
2 x Modified epoxy 300

Deck Machinery

Hose handling crane
1 x El-hyd., cylinder luffing, single jib type,
10 tons(SWL) x 10 m/min

Windlass
2 x El-hyd.(high pressure) type,
Capacity as per Class requirement

Mooring winch
2 x El-hyd.(high pressure) type,
with non-autotension device,
15 tons(SWL) x 15 m/min

Steam Generating Plant

Auxiliary boiler
1 x Vertical, water tube type
18,000 kg/h x 7 kg/cm^2

Composite boiler
1 x Vertical composite
2,000 kg/h x 7 kg/cm^2
1,000 kg/h x 7 kg/cm^2 for exhaust gas section
at NCR load of M/E

Electric Power Generating Plant

Diesel generator
3 x 900 kW, AC 450 V, 60 Hz

Emergency generator
1 x 120 kW, AC 450 V, 60 Hz
2,000 kg/h x 7 kg/cm^2 for oil fired section

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nassco

Tel: 619 544-3400
Fax: 619 544-7633
2798 E. Harbor Drive
San Diego, CA 92113
www.nassco.com