



NAVNAUTIK'S PORTFOLIO ON OIL & PRODUCT CARRIERS



ABOUT US:

- NAVNAUTIK PTE LTD is a marine consultant company particularly catering for special application vessels. We specialize in the whole spectrum of varied market on specific customized application. Extensive effort is dedicated in the study of a project from technical and operational point of view.
- Such customized designs have taken place in many of our projects
- Over the three decades, we have designed various types of product / oil tankers as detailed in subsequent pages.
- Over the past decade, we have successfully ventured into the offshore maritime industry also and delivered highly sophisticated vessels such as Ultra deep water pipe laying vessel (Lewek Constellation), Diving Support vessel, Accommodation Barges to support offshore oil rigs amongst other projects.
- We specialize in design of special application vessels. Our customized design solutions have ensured long-term fruitful relationship with our esteemed clients worldwide.
- NAVNAUTIK's work philosophy is "to design today what you will need tomorrow".

OIL & PRODUCT CARRIERS DESIGNED BY NAVNAUTIK & IN OPERATION

1. 1300 CBM LPG Carrier
2. SELF-PROPELLED FUEL OIL CARRIER
3. 3500 DWT CARGO VESSEL LCDT
4. 5250 DWT BITUMEN / LANDING CRAFT
5. NON-PROPELLED ASPHALT BARGE
6. 4990 DWT CLEAN PRODUCT TANKER
7. 800 CBM UNMANNED ASPHALT / OIL CARRYING BARGE
8. 4200 CBM ASPHALT CARRIER (Conversion from 5700 DWT Product Tanker)

1. 1300 CBM LPG Carrier - 'THAI OIL 4'

Principal Dimensions

Length (O.A.) :	69.30 m
Beam (Mld) :	12.20 m
Depth (Mld) :	5.20 m
Designed draught :	4.00 m (max)
Maximum continuous speed :	10.00 knots
Deadweight :	937.00 Tons
Cargo Tank Capacity :	1300.00 cbm
No of cargo tanks :	2 cylindrical
Total Complement :	16 Persons



Cargo Containment: 2 Nos Cylindrical Tanks of 650 cbm at 18 kg/sq. cm pressure for carrying Propane, Butane or Propane / Butane mixture of any ratio.

Main Engines & Gearboxes: Two units marine diesel engine including operational accessories with reverse reduction gearbox. Performance per engine Continuous output : 600 PS at 900 RPM

Electric Generating Plant: 2 units standard shipboard generating sets. Both arranged for parallel operation. Rating : abt 240 kw at p.f. 0.8 / Voltage : 380 Volts / Frequency : 50 Hz / Speed : 1500 RPM

2. SELF-PROPELLED FUEL OIL CARRIER



PRINCIPAL PARTICULARS

Length Overall	72.50 m	Speed	8.0 knots
Breadth (Moulded)	14.80 m	Total Complement	14 persons
Depth (Moulded)	4.0/4.6 m	<u>Class Notation</u>	
Design Draft (mld)	2.60 m	ABS + A1, Fuel Oil Carrier, Philippine Inter	
Cargo Tank Capacity	1850 m ³	Island Service, + AMS circle E	

3. 3500 DWT CARGO VESSEL LCDT



PRINCIPAL PARTICULARS

Length (O.A.)	99.74 m	Accommodation	15 persons plus 1 cabin for Owner
Beam (Mld)	15.80 m		
Depth (Mld)	6.50 m		
Designed Load Draft (Mld)	4.50 m		
Speed	10.00 knots		
Deadweight	3500 Tonnes		

CLASS NOTATION

Bureau Veritas: For the notation I 3/3 E +
Cargo Ship LCDT Deep Sea

4. 5250 DWT BITUMEN / LANDING CRAFT



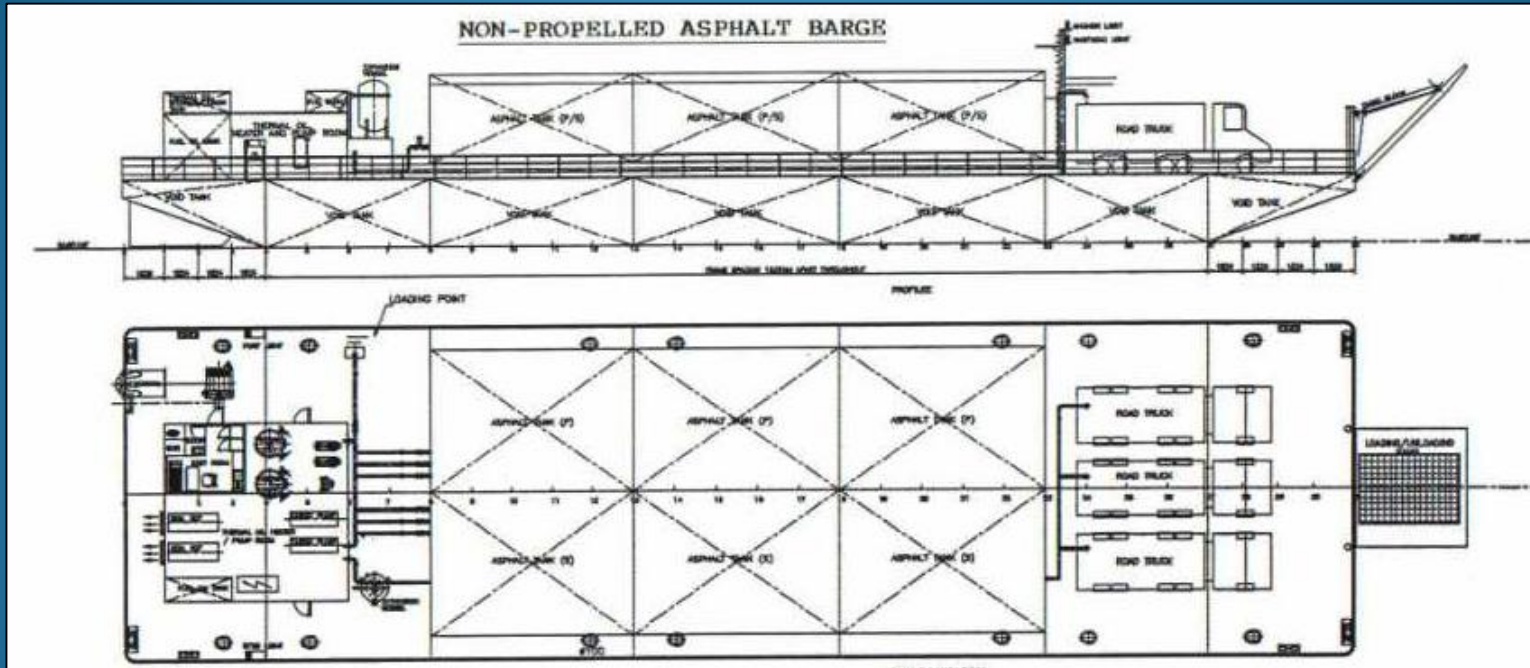
PRINCIPAL PARTICULARS

Length (O.A.)	115.00 m	Accommodation	22 persons plus 1 cabin for Owner
Beam (Mld)	20.00 m		
Depth (Mld)	6.50 m		
Designed Load Draft (Mld)	4.50 m		
Speed	10.00 knots		
Deadweight	5250 Tonnes		

CLASS NOTATION

Bureau Veritas: For the notation I 3/3 E +
Cargo Ship LCDT Deep Sea + MACH.

5. NON-PROPELLED ASPHALT BARGE



PRINCIPAL PARTICULARS

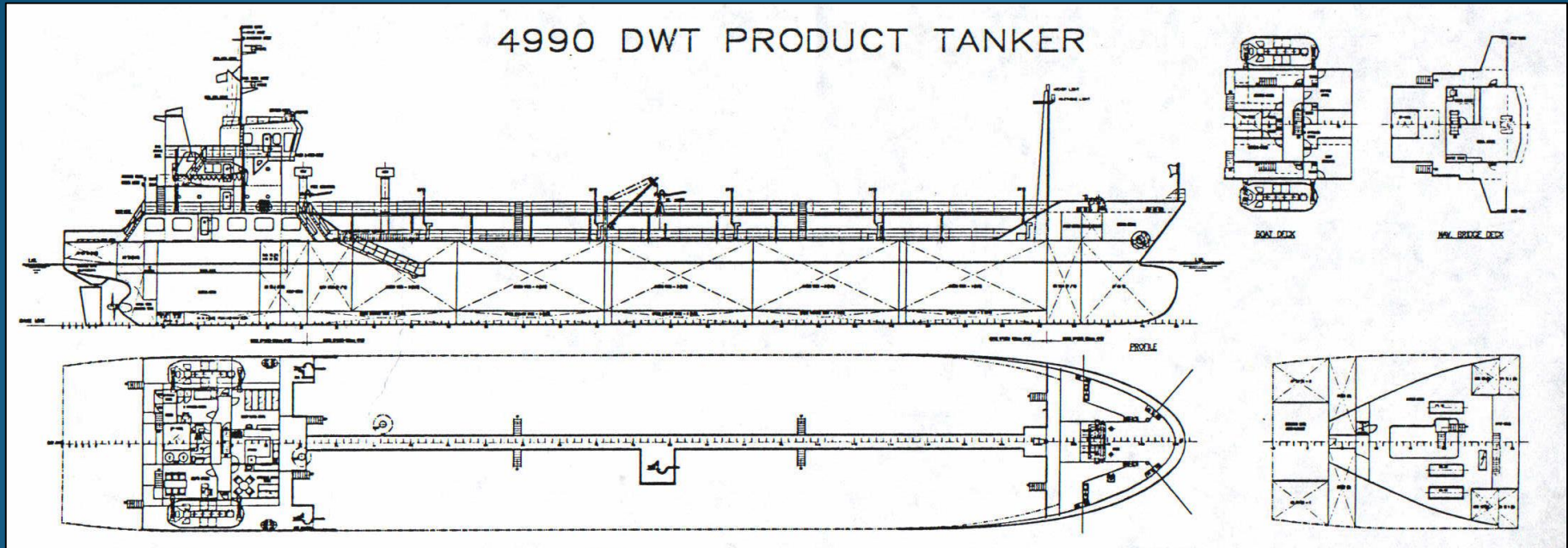
Length Overall	54.864M (180')
Breadth Moulded	15.240M (50')
Depth Moulded	3.048M (10')
Design Draft	2.390M
Cargo Capacity (in 6 tanks)	1250 m ³

Tanks are mounted on barge deck and space provided for road tanker to station on barge for loading of asphalt. Includes a deckhouse pump room and rest room on deck.

CLASS NOTATION

Vietnam Register of Shipping, VIRES

6. 4990 DWT CLEAN PRODUCT TANKER



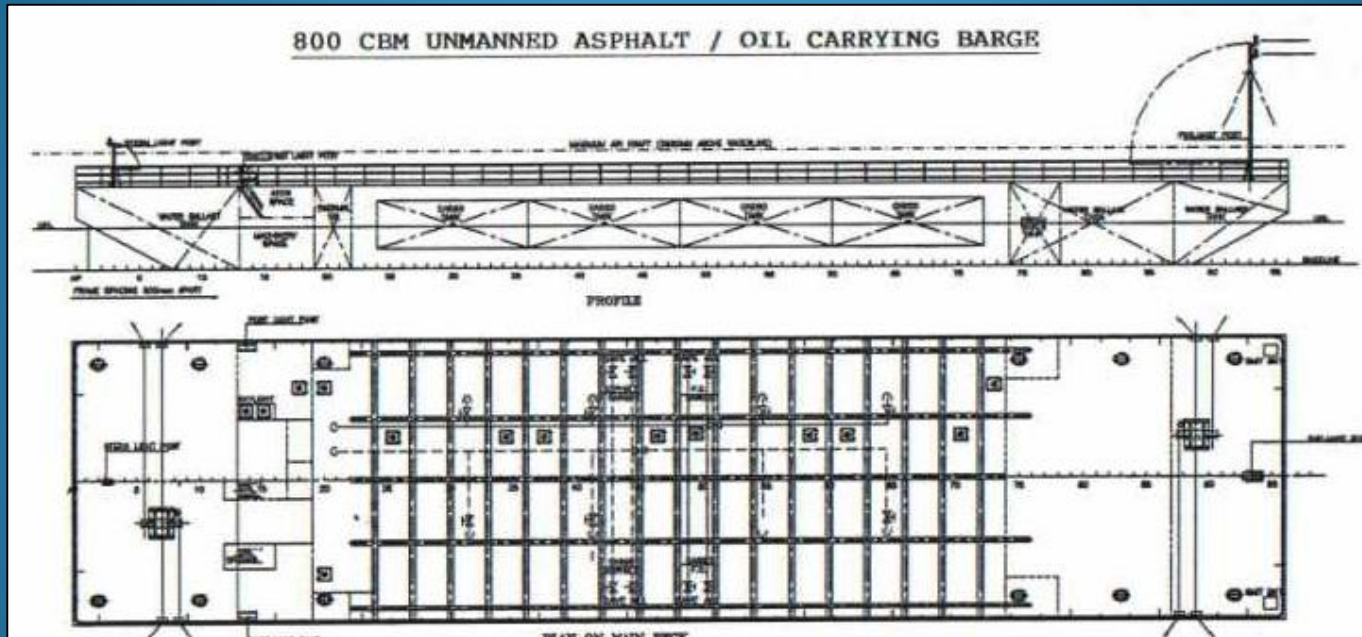
PRINCIPAL PARTICULARS

Length Overall	98.50 m	Total Complement	20 persons
Breadth (moulded)	15.50 m		
Depth (moulded)	7.50 m		
Designed draught	5.50 m		
Deadweight	5000 tonnes		
Speed	11 knots		

CLASS NOTATION

American Bureau of Shipping, +A1 + AMS -
Oil Carrier

7. 800 CBM UNMANNED ASPHALT / OIL CARRYING BARGE

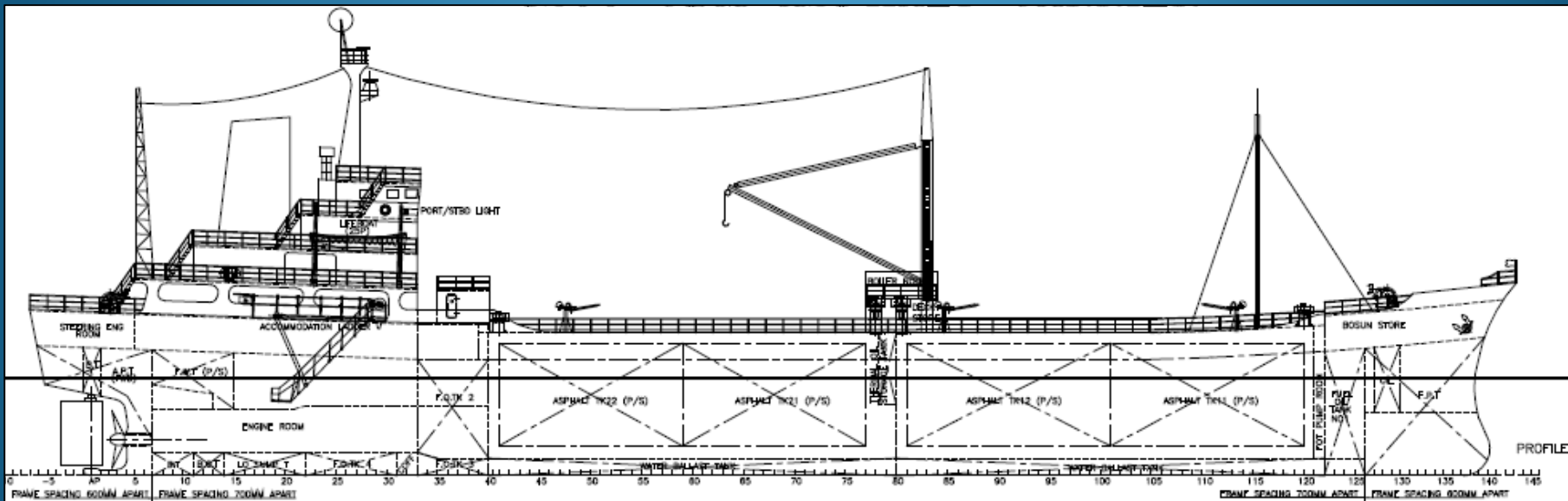


PRINCIPAL PARTICULARS

Length Overall	57.60M	Cargo Capacity (in 4 tanks)	800 m ³
Breadth Moulded	13.72M	Complement	2 persons (watch keeping)
Depth Moulded	4.00M	<u>CLASS NOTATION</u>	
Design Draft	1.98M	American Bureau of Shipping, ABS	

8. 4200 CBM ASPHALT CARRIER

(Conversion from 5700 DWT Product Tanker)



PRINCIPAL PARTICULARS

Length Overall	102.80M	Service Speed	12.10 knots
Breadth Moulded	16.00M	Total Complement	25 persons
Depth Moulded	9.80M	<u>CLASS NOTATION</u>	
Design Draft	6.70M	Nippon Kaiji Kyokai, NS * (ASPHALT	
Cargo Capacity	4200 m ³	TANKER), MNS *	

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