



PHOTO: JEAN PIERRE FABRE

IMO 9642394

# MN CALAO

## CLASSIFICATION

DNV +1A1 General Cargo Carrier, RO/RO CONTAINER, EO, D G-P, PET, BIS, TMON, BwM-T AP-1(50%), NAUT-AW, COAT-1, ECA(SOx-P), ICM, CLEAN, RECYCLABLE, COMF-V(3) ICE 1A

## DIMENSIONS

Length oa	160.00 m
Length pp	150.30 m
Beam mid	27.00 m
Draft max	8.40 m
Depth to upperdeck	18.50 m
Depth to maindeck	10.45 m

## TONNAGE

GT	23,673
NT	7,102
tDw	12,026

## DRIVERS

<b>CABINS</b>	
6 x 2-berth drivers	12

## CREW

Crew	25
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## VEHICLE DECKS

Deck	Free height	TEU	Lanem
Deck 7	Open	86	323
Deck 5	4.7/open	361	1,164
Deck 4 hoistable	3.0	0	206
Deck 3	6.7/3.4	310	914
Deck 1	6.7	92	323
Total		849	2,875

## ACCESS

### EXTERNAL ACCESS

Stem ramp/door	16.0m wide x 14.7m long +6.2m flaps, max 150t
Side ramp/door	9.0m wide x 7.6m long + 6.45m flaps, max 150t
Flush hatch	

### INTERNAL ACCESS

Fixed ramp dk3->1	cover 61.5m long x 6.1m wide, ramp 4.5m clear width
Fixed ramp dk3->5	On portside, top hinged bulkhead door 4.6m wide x 5.0m high
Fixed ramp dk5->7	
Deck crane	45t at 25m radius

## MACHINERY

### MAIN ENGINES

Make	2 MAN
Type	7L48/60CR
Effect, kW each	8,400
Effect, BHP ttl	22,848
Rpm	500

### AUXILIARY ENGINES

Make	3 Himsen
Type	7H21/32
Effect, kW each	1,064

### PROPELLERS

Make	1 MAN Alpha
Diameter	5.4 m
Rpm	155
Bow thrusters	2
Effect, kW each	1,000
Stern thrusters	1
Effect, kW each	1,000

## SPEED/CONSUMPTION

Trial speed	21.4 knots at 95% mcr
Service speed	20 knots at 85% mcr with 15% sm
Fuel consumption	58t/day

## TANK CAPACITIES

Heavy fuel oil	1,575 m <sup>3</sup>
Gas oil	235 m <sup>3</sup>
Fresh water	280 m <sup>3</sup>
Ballast water	6,840 m <sup>3</sup>

## SELECTION OF SUPPLIERS

### PROJECT

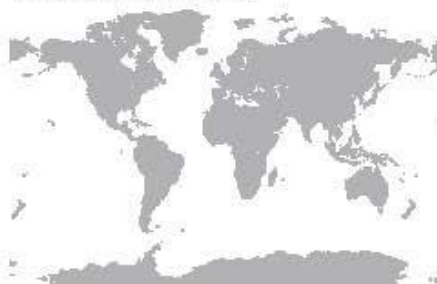
Naval architect ..... KNUD E. HANSEN A/S

### HARDWARE

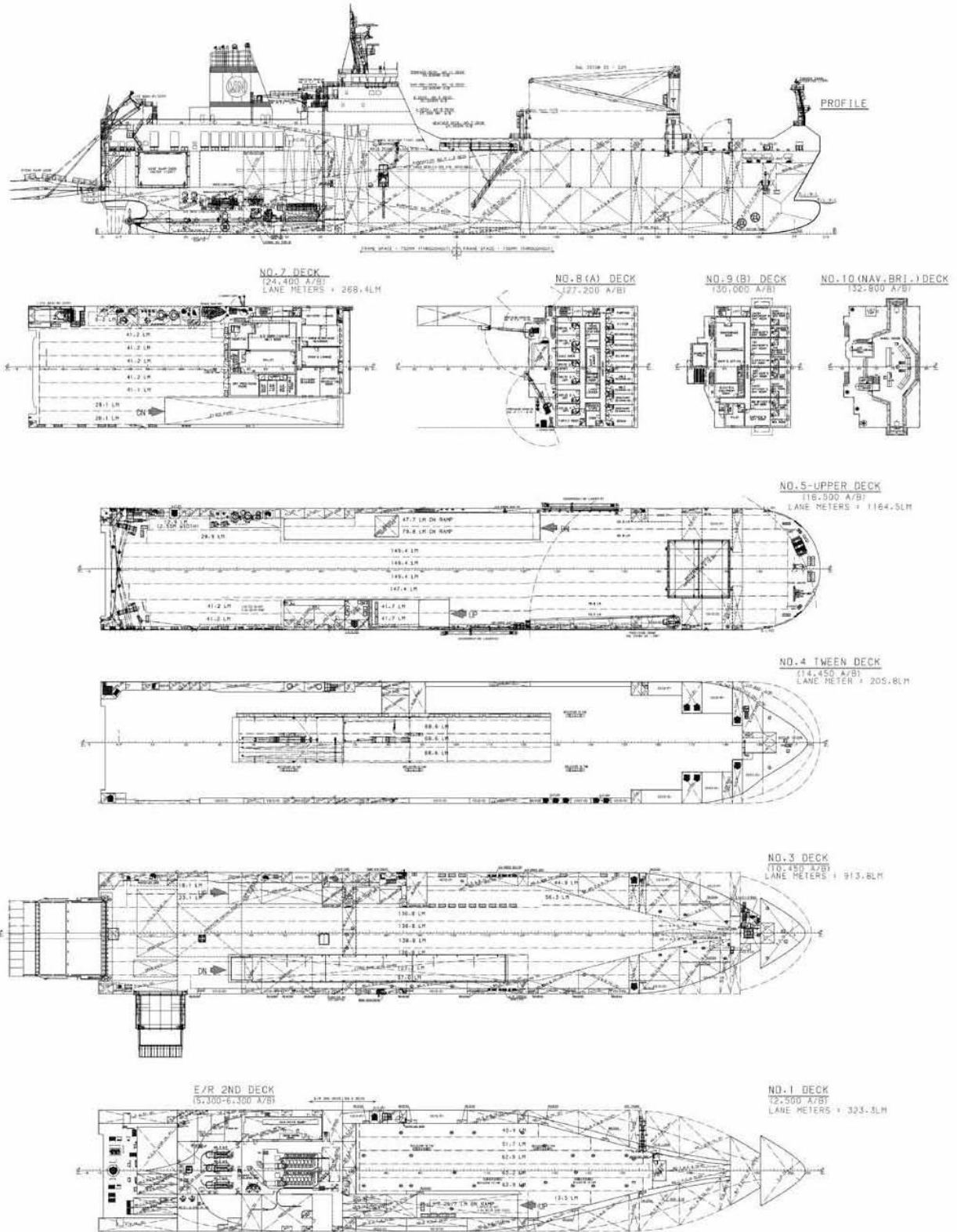
Access ..... TTS

Antiheeling	Intering
Bw treatment	RWQ
Crane	MacGregor
Gearbox	Renk
Model testing	MARIN
Rudder	Becker
Thrusters	Hyundai

Built by Hyundai Mipo, South Korea for Compagnie Maritime Nantaise, Nantes, France. Chartered by French MOD. Delivered June 24, 2013. In service worldwide.



Sister vessel: MN TANGARA - IMO: 9642409



MN CALAO

For many years, Compagnie Maritime Nantaise has chartered several of its ro-ro ships to the French Ministry of Defence. However, with a growing intervention force as well as ongoing commitments to French overseas territories, two larger ro-ro ships, designed by Danish consultants Knud E. Hansen A/S,

were ordered which could serve both military and commercial customers. Military features include the side ramp aft as well as the side mounted deck crane. The hoistable truck deck in the maindeck can be loaded with 4x4 jeep type vehicles and small trucks. Containers are double stacked on the tank top and maindeck

by forklift trucks giving the vessel a good container/ro-ro combination. The twin engine, single screw configuration gives the best fuel consumption and also the flexibility to sail efficiently at a service speed of 15-16 knots on one engine.