DOLE MAYA - Reefer container ship



Shipbuilder:CSSC Chengxi Ship	pyard
Vessel's name:	Maya
Owner/Operator:Ventura Tradin	q Ltd
Country:United S	
Designer: . Shanghai Merchant Ship D & Research Institute, CSSC (S	
Country:	China
Model test establishment used:Shar Ship & Shipping Research In:	nghai
Flag:Bah	amas
IMO number:987	7729
Total number of sister ships already co	m-
pleted (excluding ship presented):	2

Designed specifically for the US fruit and vegetable trade from Latin America by SDARI, *Dole Maya* is a 195m loa 32.20m beam reefer container vessel and one of a pair ordered by Dole. *Dole Maya* was delivered by CSSC Chengxi Shipyard in January and its sister *Dole Aztec* five months later.

The hull form is a conventional one for the vessel type with a bulbous bow and a transom stern. They are fully cellular vessels equipped with three MacGregor hydraulic

cranes of 45tonne lift capacity at 28m.
Cargo capacity is nominally 2,336TEU although for reefer vessels it is more normal to discuss in 40ft or FEU capacity. Dole Maya can accommodate a total of 1,012FEU – 447 under deck and 565 above deck. A further 312TEUs can be accommodated on deck. At a homogenous 25tonne box weight, capacity is 988FEU. With 919 reefer plugs available 80% of the ships total capacity is covered. The reefer containers under deck are cooled by fresh water, this greatly reduces the number of ventilation fans, electric power load proise and CO. emissions.

electric power load, noise and CO₂ emissions. The main engine is MAN B&W 7G60ME-C9.5 type with a power output of 18,760kW at 97rpm. For propulsion purposes it is directly linked to a 7m diameter controllable pitch propeller for a service speed of 19.7knots at design draught. Reefer vessels have a high power demand for cooling boxes and to cover this the vessel is fitted with four gensets based on MAN 7L27/38 medium-speed diesels each producing 2,310kW at 720rpm. To meet SOx rules, an Andritz hybrid

To meet SOx rules, an Andritz hybrid scrubber has been fitted treating the exhaust of the main engine and all four auxiliaries.

TECHNICAL PARTICULARS

Length oa:	195.00m
Length oa:	185.00m
Breadth moulded:	32.20m
Depth moulded:	
Width of double skin	
side:	2.10m
bottom:	1.65m
Draught	
scantling:	11.50m
design:	10.50m
design:	28,780t
Displacement:	
Lightweight:	13,366.0t
Deadweight	
scantling:	3,4064t
design:	

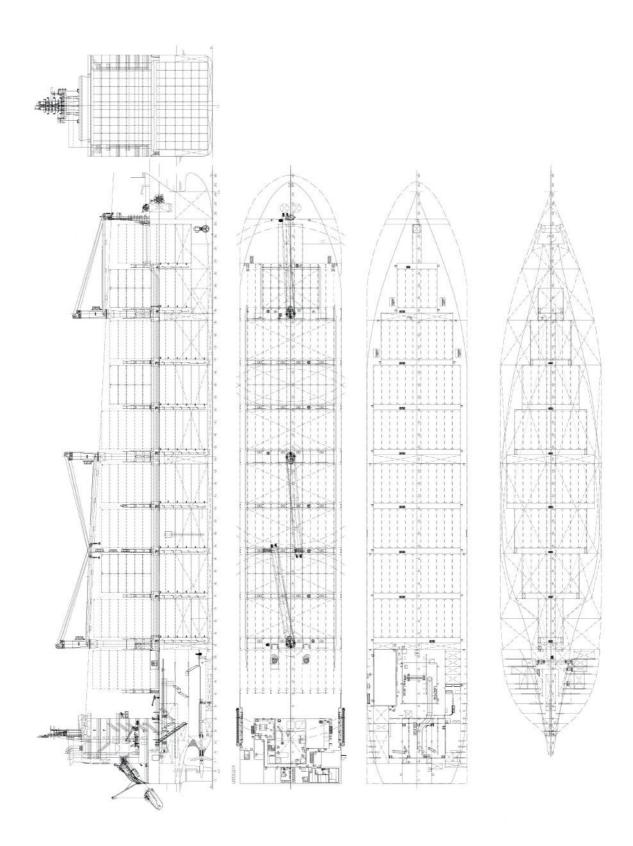
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Source: Port Tampa Bay
Block co-efficient:0.656 at design draught Speed, service (85%MCR output):19.7knots at 85% MCR with 15% SM
Cargo capacity (m³) Bale:447
Refrigerated storage:444 Bunkers (m³)
Heavy oil:
Water ballast (m³):12,630 Container ships – water ballast in loaded
condition (tonnes):6,420 at 25t homogeneously loaded at scantling draught Daily fuel consumption (tonnes/day)
Main engine only:
Classification society and notations: DNVGL + 1A Container Ship, CMON, COAT-PSPC(B), BIS,
EO, LCS, NAUT(NAV), Clean(Tier III), ER(SCR, EGR, TIER III, EGCS Hybrid), BWM(T),
Recyclable, TMON(Oil lubricated), DG(P) Heel control equipment:1 pair Anti-heeling tank
Propulsion
Main engine(s) Design:MAN B&W
Model:7G60ME-C9.5-EGRBP Manufacturer:CSSC-MES Diesel Co., Ltd
Number:1 Type of fuel:HFO & MGO
Output of each engine:18,760kW Is this a diesel-electric or hybrid?:N
Propeller(s) Material:Ni-Al Bronze Cu3
Designer/Manufacturer:
Fixed/Controllable pitch:
Speed:97rpm (MCR) Diesel-driven alternators
Number:
Type of fuel:HFO & MGO Alternator make/type:ZhenJiang China
Marine-XianDai Generating Co., Ltd / HFC6 564-84K Output/speed of each set:
720rpm
Exhaust-gas scrubbing equipment Manufacturer:Andritz
Type:Hybrid On main engines?:M/E 85%SMCR (CSR) On auxiliary engines?:3 sets G/E at
85% load Boilers
Number:
Make:Jiujiang-Mitsubishi Marine Boiler Output, each boiler:oil fired section: 2,500kg/h; exhaust gas section: 2,000kg/h
Stern appendages/special rudders:single rudder with bulb
Bow thruster(s) Make:Nakashima Propeller Co., Ltd Number:1
Output (each):
Cargo cranes/cargo gear Number:3

Make:MacGregor
Type:Hydraulic Crane Type GL4528/3930.5-2
Performance:
Other cranes
Number:
Co., Ltd
Type:Electric Provision Crane
Tasks:
Mooring equipment
Number:
Make:TTS Marine Type:Electric
Special lifesaving equipment
Number of each and capacity: 30 person
Make: Jiangyin Neptune Marine Appliance Co., Ltd
Type:6.7m totally enclosed free fall life boar
Cargo/capacity Hatch covers
Design:Brightseas Ships Equipment Co., Ltd
Manufacturer: Chengxi Shipyard Co., Ltc
Type:
Lengths:20ft, 40ft, 45ft
Heights:8ft 6in, 9ft 6ir
Cell guides:
Total TEU capacity:312TEU/1,012FEU
On deck:312TEU/565FEL
In holds:
FFU: 988
Reefer plugs:919
Tiers/rows (maximum) On deck: 8 tiers / 13 rows
In holds:6 tiers / 13 rows
Hold refrigeration system: cooled by fresh
wate
Doors/ramps/lifts/moveable car decks Number of each:Sliding pilot side door (2)
Type:Hydraulio
Designer:Wuxi Dongzhou Marine
Equipment Co., Ltd
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Equipment Co., Ltd. Cargo tanks Number:
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Delivery date:.....20 January 2021



DOLE MAYA



SIGNIFICANT SHIPS OF 2021