

MAERSK TACOMA: Oil/ chemical tanker

Shipbuilder:Sungdong Shipbuilding & Marine Engineering Co., Ltd.	S
Vessel's name: Maersk Tacoma Hull No: S3075	
Owner/Operator: Maersk Tankers A/S Country: Denmark	C
Designer:Sungdong Shipbuilding & Marine Engineering Co., Ltd.	
Country: Republic of Korea Model test establishment used: KRISO Flag: Singapore	Ν
IMO number:	To
(excluding ship presented):	

MAERSK TACOMA is the first vessel in a series of four MR product oil /chemical tankers, built by Sungdong Shipbuilding & Marine Engineering for Maersk Tankers A/S. The vessel features a double sided skin and has a flush deck, bulbous bow, transom stern, open water type stern frame, semi-balanced rudder and single propeller driven by a slow speed diesel engine.

The main engine MCR of MAN 6G50ME-B9.3 Tier II is de-rated to 7,317kW at 88.6rpm for economy fuel oil consumption. The speed of the vessel at design draught (11m) is 15.1knots at 85% of MCR(6,219kW) with 15% sea margin based on a well optimised hull form and propeller design which had been analysed by CFD. Electric power is generated from three diesel generators driven by alternators with 800kW output and steam is generated by two auxiliary boilers of water tube type with a capacity of 18,000kg/h and composite boiler with oil fired section 1,200kg/h and exhaust gas section.

The vessel has six pairs of cargo oil tanks, two slop tanks, fore and aft peak tanks, segregated water ballast tanks, fuel oil tanks and fresh water tanks. Cargo tanks are divided by plane type transverse and longitudinal bulkheads. Cargo handling is performed by three cargo oil pump of 600m³/h, driven by steam turbine. Water ballast is handled by two ballast pumps, driven by steam turbine and electric motor. This vessel has one ballast water treatment system of the indirect electrolysis type which is environmentally friendly. The vessel is fully compliant with the latest

The vessel is fully compliant with the latest environmental guidelines on issues such as fuel oil protection, the inventory of hazardous materials for ship recycling, performance standards for protective coatings (PSPC) and IMO Tier II NOx requirements. The vessel also has a marine gas oil tank to satisfy emission requirements in Sulphur Emission Control

Areas (SECAs). Additionally, the vessel is fully compliant with the IBC code for carrying chemical cargoes and the number of applicable chemical cargoes is about 500.

about 500. TECHNICAL PARTICULARS

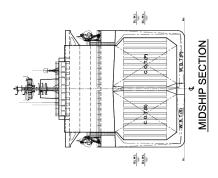
Length oa: 183m

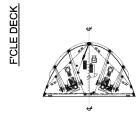
Length bp:
Breadth moulded: 32.2m
Depth moulded
To main deck:19.1m
Width of double skin
Side: 2m
Bottom: 2.15m
Draught
Scantling: 13.3m
Design: 11m
Gross:
Deadweight
Design:
Scantling: 49,828dwt
Speed, service (%MCR output): 15 knots at
85% of MCR
Cargo capacity (m ³)
Liquid volume:
Bunkers (m ³)
Heavy oil:
Diesel oil: (Marine gas oil: 292m³)
Diesel oil: (Marine gas oil: 292m³) Water ballast (m³):22,296m³
Daily fuel consumption (tonnes/day)
Main engine only:
Classification society and notations:LR/
"+100A1, Double Hull Oil and Chemical
Tanker, Ship Type 2, CSR, ESP, ShipRight (CM,
ACS(B)), *IWS, LI, SPM4, ECO (BWT, IHM, GW,
OW, P), XLMC, IGS, UMS, ETA" with the
descriptive notes "ShipRight (BWMP(S,T),
SERS, VECS, SCM)", COW(LR)
% high-tensile steel used in construction: 37
Main engine(s)
Design: MAN B&W
Model:6G50ME-B9.3 Tier II
Manufacturer: STX HI
Number:
Type of fuel (eg, HFO or MDO):HFO, MDO, MGO
Output of each engine:7,317kW x 88.6rpm
Propeller(s) Material:Ni-Al-Br
Designer/Manufacturer: Sungdong
Shipbuilding & Marine
Engineering Co., Ltd. / SILLA
Number: 1 set

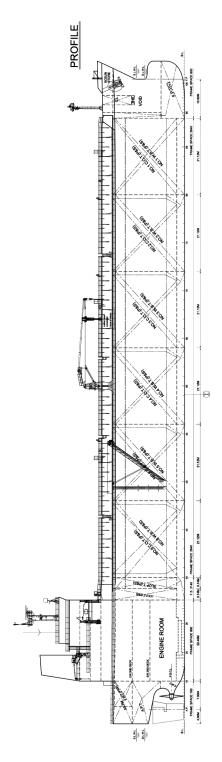
Fixed/Controllable pitch:FPP, keyless, aerofoil
Diameter: 6.7m Speed: 88.6rpm Diesel-driven alternators Number: 3 sets
Engine make/type:STX ENGINE
/ 6L 23/30H-MK2 Type of fuel (eg, HFO or MDO):HFO, MDO, MGO
Output/speed of each set:
Alternator make/type: HYUNDAI / HFC7 506-10P
Output/speed of each set:1,000kW / 720rpm Boilers Number:2 sets Type:Auxiliary, Composite
Make:
Cargo cranes/cargo gear Number: 1 set Make: DMC
Type: Electric/hydraulic. Driven Performance:
Number: 2 sets Make: DMC Type: Electric/hydraulic. Driven Tasks: Engine part handling(Stb'd only), Provision handling
Performance:Port(2tonnes), Stb'd(3.2tonnes) Mooring equipment Number:
Mooring winch 7 sets Make:Flutek-Kawasaki Type (electric/hydraulic/steam): Electric /hydraulic. Type
Special lifesaving equipment (eg MES, free-fall lifeboats) Number of each and capacity:
Type: Weather tight steel door Cargo tanks Number:
Cargo pumps Number:
(hydraulic motor driven) Make: Framo Stainless steel: AIS316 Capacity (each): Cargo tank (600m³ x 125mLC), Slop tank(300m³ x 125mLC)
Cargo control system Make:Framo
Type:Framo Cargo Pumping System Ballast control system Make:Emerson
Type: Electro-hydraulic type Water ballast treatment system Make: Samsung Heavy Industries
Capacity:2,000m³h x 1 set Complement Officers:6
Crew:
Type:Addressable Fire extinguishing systems Cargo holds:Make/Type: NK, Fixed Deck
Foam System Engine room: Make/Type: NK, High
Engine room: Make/Type: NK, High Expansion Foam System
Expansion Foam System Radars Number: S-BAND Radar 1ea,
Expansion Foam System Radars Number: S-BAND Radar 1ea, X-BAND Radar 1ea Make: JRC Model(s): JMR-9272-S(S-BAND Radar),
Expansion Foam System Radars Number: S-BAND Radar 1ea, X-BAND Radar 1ea Make: JRC Model(s): JMR-9272-S(S-BAND Radar), JMR-9225-6X(X-BAND Radar) Integrated bridge system: No Waste disposal plant Incinerator Make: Hyundai Marine Machinery
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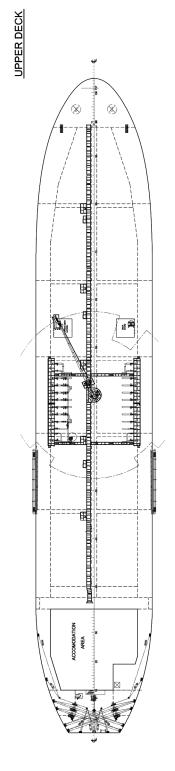
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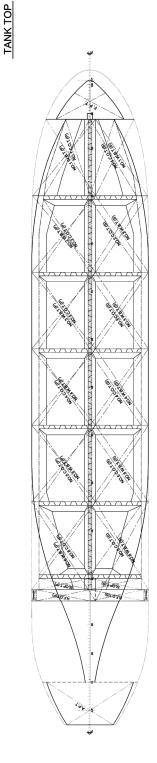
MAERSK TACOMA











SIGNIFICANT SHIPS OF 2015 57