

## D&K ABDUL RAZZAK KHALID ZAID AL-KHALID: Product oil/chemical tanker

Shipbuilder:	STX Offshore & Shipbuilding Co.Ltd.
Vessel's name:	D&K Abdul Razzak Khalid Zaid Al-Khalid
	S1636
	D&K Holdings LLC. STX Offshore
9	& Shipbuilding Co.Ltd.
Model test	Republic of Korea
	KRISO (Korea)
	Marshall Islands
Total number of sister s completed (excluding	

The D&K ABDUL RAZZAK KHALID ZAID AL-KHALID has an overall length of 182.90m, a moulded breadth of 32.20m and a moulded depth of 19.10m. Its service speed at design draught is 14.5knots at NCR power for the main engine with a 15% sea margin, and maximum deadweight is about 50,153.8dwt on a scantling draught of 13.3m.

This vessel is a new MR tanker which has been built in accordance with newly developed procedures and a formal certificate of EEDI will be issued. According to the pre-EEDI technical file, attained EEDI is 4.02g CO<sub>2</sub>/tonnes-nm at the design stage and it has attained 18.92% for required EEDI Phase 2.

A mewis duct is installed on the vessel and it is expected to achieve power savings when compared with vessels of similar size without a mewis duct.

with vessels of similar size without a mewis duct.
To allow the shipping of high-density cargo (s.g. = 1.53 t/m³) partial loading, additional structural reinforcement was carried out and verification of stability was also completed.

## **TECHNICAL PARTICULARS**

Length oa: Length bp: Breadth moulded:	173.9m
Depth moulded	
To main deck:	19.1m
To upper deck:	19.1m
Width of double skin	
Side:	
Bottom:	2.15m
Draught	12.2m
Scantling: Design:	11m. 11
Gross:	29 554at
Deadweight	20, 00 igt
Scantling:	50,104MT
Speed, service (79 %MCR output	
Cargo capacity (m <sup>3</sup> )	
Liquid volume:	54,011.9m <sup>3</sup>

Bunkers (m³)
Heavy oil: 1,564m <sup>3</sup>
Gas oil:
(including A.P.TK)
Daily fuel consumption (tonnes/day)
Main engine only: appx. 21.19 tonnes/day
Classification society and notations:LR
+100A1 Double Hull Oil and Chemi-
cal TankerShip Type 2, CSR, ESP,
ShipRight(CM,ACS(B)),*IWS, LI, SPM4,
ECO(BWT,CRM,SEEMP,EEDI,2,IHM)
P,TC)+LMC, IGS, UMS With the Descriptive Notes ETA,Part Higher
Tensile Steel, ShipRight(BWMP(T,S),
SERS, VESC, SCM)
% high-tensile steel
used in construction:45%
Main engine(s) x 1
Model:STX-MAN B&W 6G50ME-B9.3
Manufacturer: STX HI Co. Ltd.
Type of fuel: HFO, MGO
Output of each engine: 7,020kW 85rpm
(MCR), 5,545kW 78.6rpm (NCR)
Propeller(s) x 1 EA Material:Ni-Al-Br
Designer/Manufacturer: Silla Metal
Fixed/Controllable pitch: Fixed pitch
Diameter:
Diesel-driven alternators x 3
Engine make/type:STX Engine /
6L23/30H Mk2
Type of fuel: HFO, MGO
Output/speed of each set: 1050kW
at 900rpm Alternator make/type:Hyundai/
HFC7 508-08P
Output/speed of each set:990kW/900rpm
Boilers x 2
Type: Auxiliary boiler, composite boiler
Make:Kangrim
Output, each boiler:16,000KG/HR,
1,200 X 700 KG/HR
Cargo cranes/cargo gear x 1 Make: Oriental
Type: Electro-hydraulic
Performance:
Other cranes x1
Make:Oriental
Type: Electro-hydraulic
Tasks:Provision handling
Performance:
Mooring equipment x 6
Make:
Type (electric/hydraulic/steam):Low-pressure
hydraulic system
Cargo tanks
Number: 10 cores tonks

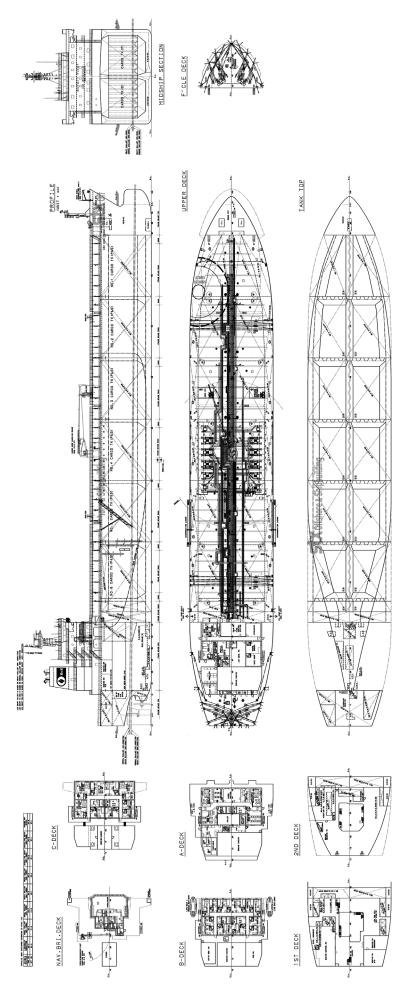
Coated tanks: International Paint Korea. Type:
(portable cargo pump) Type: Submerged type
Make:Framo
Stainless steel:
- 2 of slop tank numps (SD)150) · 300
m³/h x 125mlc - 1 residual pump (SD100) :
- 1 residual pump (SD 100) :
m"/h x 70mlc Cargo control system Make:Framo
Type:1 of electric control panel
+ 2 of diesel engine control panel Ballast control system
Make: Emerson Type:Piano type ballast control panel
Water ballast treatment system  Make:
Capacity:830m³/h horizontal ex proof type for upper deck
330 m <sup>3</sup> /h vertical type for E/R Complement
Officers:
Suez/Repair Crew:
. 2 Shore workers Bridge control system
2 Shore workers  Bridge control system  Make:
2 Shore workers
2 Shore workers
Bridge control system Make: Kongsberg Type: A-CHIEF 600 Fire detection system CARGO/2IL Fire extinguishing systems Cargo holds: sea water & deck foam system. Make/Type: NK / alcohol
Bridge control system  Make: Kongsberg Type: A-CHIEF 600  Fire detection system CARGO/2IL  Fire extinguishing systems Cargo holds: sea water & deck foam system.  Make/Type: NK / alcohol resistant foam
Bridge control system  Make:  Type:  Normalize  Make:  Make:  Normalize  A-CHIEF 600  Fire detection system  Cangol/2lL  Fire extinguishing systems  Cargo holds: sea water & deck foam system.  Make/Type:  Make/Type:  NK / alcohol  resistant foam  Engine room:  CO, fire extinguishing sys.
Bridge control system Make: Kongsberg Type: A-CHIEF 600 Fire detection system Type: CARGO/2IL Fire extinguishing systems Cargo holds: sea water & deck foam system. Make/Type: NK / alcohol resistant foam Engine room: CO <sub>2</sub> fire extinguishing sys. Make/Type: NK/high pressure CO <sub>2</sub>
Bridge control system Make: Kongsberg Type: A-CHIEF 600 Fire detection system CARGO/2IL Fire extinguishing systems Cargo holds: sea water & deck foam system. Make/Type: NK / alcohol resistant foam Engine room: CO <sub>2</sub> fire extinguishing sys. Make/Type: NK/high pressure CO <sub>2</sub> Galley: Galley hood firefighting system Make/Type: Sam-joo / ANSUL
Bridge control system  Make: Kongsberg Type: A-CHIEF 600  Fire detection system CARGO/2IL  Fire extinguishing systems Cargo holds: sea water & deck foam system.  Make/Type: NK / alcohol resistant foam  Engine room: CO <sub>2</sub> fire extinguishing sys.  Make/Type: NK/high pressure CO <sub>2</sub> Galley: Galley hood firefighting system Make/Type: Sam-joo / ANSUL
Bridge control system  Make:  Kongsberg Type:  A-CHIEF 600 Fire detection system  Type:  CARGO/2IL Fire extinguishing systems  Cargo holds: sea water & deck foam system.  Make/Type:  NK/ alcohol resistant foam Engine room:  CO <sub>2</sub> fire extinguishing sys.  Make/Type:  NK/high pressure CO <sub>2</sub> Galley:  Galley hood firefighting system  Make/Type:  Sam-joo / ANSUL  Galley CO <sub>2</sub> system.  Make/Type:  NK/Fixed CO <sub>2</sub> system
Bridge control system Make: Kongsberg Type: A-CHIEF 600 Fire detection system Type: CARGO/2IL Fire extinguishing systems Cargo holds: sea water & deck foam system. Make/Type: NK / alcohol resistant foam Engine room: CO2 fire extinguishing sys. Make/Type: NK/high pressure CO2 Galley: Galley hood firefighting system Make/Type: Sam-joo / ANSUL Galley CO2 system. Make/Type: NK/Fixed CO2 system Radars x sets. Furuno Model(s) FAR-2837S / FAR-2827
Bridge control system Make: Kongsberg Type: A-CHIEF 600 Fire detection system CARGO/2IL Fire extinguishing systems Cargo holds: sea water & deck foam system. Make/Type: NK / alcohol resistant foam Engine room: CO2 fire extinguishing sys. Make/Type: NK/high pressure CO2 Galley: Galley hood firefighting system Make/Type: Sam-joo / ANSUL Galley CO2 system. Make/Type: NK/Fixed CO2 system Radars x sets. Furuno Model(s) FAR-2837S / FAR-2827 Integrated bridge system: No
Bridge control system  Make:  Kongsberg Type:  A-CHIEF 600 Fire detection system  Cargo holds: sea water & deck foam system.  Make/Type:  NK / alcohol resistant foam Engine room:  CO2 fire extinguishing sys.  Make/Type:  NK/high pressure CO2 Galley:  Galley hood firefighting system Make/Type:  Make/Type:  Sam-joo / ANSUL Galley CO2 system.  Make/Type:  NK/Fixed CO2 system Radars x sets.  Make/Type:  NK/Fixed CO3 system Radars x sets.  Nowaste disposal plant Incinerator  Hyundai-Atlas Incinerator
Bridge control system  Make: Kongsberg Type: A-CHIEF 600 Fire detection system Cargo holds: sea water & deck foam system.  Make/Type: NK / alcohol resistant foam Engine room: CO2 fire extinguishing sys. Make/Type: NK/high pressure CO2 Galley: Galley hood firefighting system Make/Type: Sam-joo / ANSUL Galley CO2 system. Make/Type: NK/Fixed CO2 system Make/Type: NK/Fixed CO2 system Make/Type: NK/Fixed CO3 Galley CO3 Galley CO4 Galley CO5
Bridge control system  Make:  Kongsberg Type:  A-CHIEF 600 Fire detection system  Cargo holds: sea water & deck foam system.  Make/Type:  NK / alcohol resistant foam Engine room:  CO2 fire extinguishing sys.  Make/Type:  NK/high pressure CO2 Galley:  Galley hood firefighting system Make/Type:  Make/Type:  Sam-joo / ANSUL Galley CO2 system.  Make/Type:  NK/Fixed CO2 system Radars x sets.  Make/Type:  NK/Fixed CO3 system Radars x sets.  Nowaste disposal plant Incinerator  Hyundai-Atlas Incinerator

28 SIGNIFICANT SHIPS OF 2015

Number: ..... 12 cargo tanks

& two slop tanks

## **D&K ABDUL RAZZAK KHALID ZAID AL-KHALID**



SIGNIFICANT SHIPS OF 2015 29