



TAN CANG OFFSHORE SERVICES JSC.

Vessel Specification



TC SAPPHIRE

Technical Specification

AHTS Vessel : 5,040 HP

FiFi 1

Bollard Pull: 69T BP

“Our success is driven by the customers”

MAIN PARTICULARS

GENERAL

Lloyd's Register of Shipping
100A1, Offshore Tug / Supply Ship, Fire
Fighting Ship 1 (2400 m3) with Water Spray,
LMC

Built Cheoy Lee Shipyard,
Guangzhou

Year of delivery 2005

GRT/NRT 1463/ 439

Flag Malaysia

ACCOMODATION

Berth 2 x 1 berth cabins

5 x 2 berth cabins

8 x 4 berth cabins

Total 44 berths

PRINCIPAL DIMENSIONS

Length Overall 59.9 m

Length Waterline 54.4 m

Breadth Moulded 13.8 m

Depth Moulded 5.5 m

Draft (max) 4.7 m

CARGO DECK

Deadweight 1,390.76 mt

Deck Area 350.0 m2

Deck Strength 7 T/m2

Deck Cargo
Capacity 700 T

STORAGE CAPACITY

Fuel Oil 682.18 m3

Portable Water 252.38 m3

SWB/Drill Water 377.9 m3

Liquid Mud / Base
Oil / Brine 266.17 m3 (2 Tanks)

H2S Scavenger 184.35 m3 (4 x 4 x 46.09 m3)

Foam / Dispersant 13.6 m3/ 13.6 m3

DISCHARGED CAPACITY

Fuel Oil 1 x 150 m3/hr @ 75 m head;

Portable Water 1 x 75 m3/hr @ 75m head;

SWB/Drill Water 1 x 75 m3/hr @ 75m head;

Liquid Mud / Base
Oil / Brine 2 x 70 m3/hr @ 85 m head;

H2S Scavenger 1 x 60 m3/hr @ 22m head;

Technical parameters are subject to change without notice

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MACHINERIES

➔ PROPULSION SYSTEM

Main Engines	2 x MAK 6M25, 2,520 BHP each
Total BHP	5,040 BHP
Propeller	2 x CPP, BERG 710 HX/4
Retractable Azimuth Thruster	1 x HRP 4000, 400 kW, 6.6 T Thrust (Azimuth) 5.1 T Thrust (Bow Tunnel)
Stern Thruster	1 x 310 kW, 5 T Thrust
Bollard Pull	69 T @ 100% MCR

➔ DECK EQUIPMENT

Anchor Windlass	1 x 10 T, Brattvaag
Anchor Chain	2 x 385 m x 46 mm (Ø)
Anchor (Bow)	2 x 1,193 kg AC1-4, High Holding Power Anchors
Capstan	2 x 10 T @ 19 m/min, Brattvaag
Tugger Winch	2 x 10 T @ 16 m/min, Brattvaag
Deck Crane	1 x TTS Marine GPT 115-5-15, SWL: 5 T @ 10 m, 3 T @ 15 m

➔ TOWING AND ANCHOR HANDLING EQUIPMENT

AH Winch	255 T Brake, 150 T Pull Brattvaag Hydraulic Driven, Waterfall Type
Drum Capacity	1,300 m x 52 mm (Ø)
Towing Winch	255 T Brake, 150 T Pull Brattvaag Hydraulic Driven, Waterfall Type
Drum Capacity	1,300 m x 52 mm (Ø)
Storage Reel Drum Capacity	1,460 m x 52 mm (Ø)
Karm Fork	1 x Karm Fork, SWL: 300 T
Tow Pin	2 x Tow Pin, SWL: 300 T
Stern Roller	4 m x 1.6 m (Ø), SWL: 225 T

➔ ELECTRIC POWER GENERATION

Main Generator	2 x CAT 3412C rated 425kW/ 440V/ 60Hz/ 3Ph
Shaft Alternator	2 x 600kW/ 440V/ 60Hz/ 3Ph
Emergency Generator	1 x CAT rated 72 kW/ 450V/ 60Hz/ 3Ph

➔ NAVIGATION AND COMMUNICATION EQUIPMENT

GMDSS (Area 3)	Furuno RC-1800T
MF/HF SSB	1x Furuno FS-2570

MF/HF DSC	1x Furuno FS-2570
VHF DSC	2 x Furuno FM-8500
Navtex Receiver	1 x Furuno NX-500
SART	2 x McMurdo S4
EPIRB	1 x McMurdo E3
Portable GMDSS VHF	1 x Samyung ENC STV-160
Inmarsat	1 x Furuno Felcom 15
Radar	1 x Furuno FR-2115 1 x Furuno FR-1942 MK2
Gyrocompass	1 x Simrad Robertson GC80
Magnetic Compass	2 x Saura MR-150
Autopilot	1 x Simrad Robertson AP9 MK3
GPS	2 x Furuno GP-90
Echo Sounder	1 x Furuno FE-700
Speed Log	1 x Furuno DS-80
Anemometer	1 x Simrad IS20
AIS	1 x Furuno FA-100

➔ FIRE FIGHTING & ANTIPOLLUTION EQUIPMENT

FIFI Class (1) with Water Spray	
Pump	2 x 1,611 m ³ /hr @ 130 m head
Monitor (water)	1 x 1,200 m ³ /hr @ 16 bar
Monitor (water/foam)	1 x 1,200 m ³ /hr/300 m ³ /hr @ 16 bar
Oil Dispersant System	2 x 5 m Spray Boom

➔ SAFETY AND ENVIRONMENT

Liferafts	6 x 25 men SOLAS approved
Rescue Boat	1 x 6 persons, SC45KR, Mercury 25HP
Davit	Sheyang Saifute Marine 14KN, SWL: 1.4 T

➔ MISCELLANEOUS

Oily Water Separator	1 x Taiko Kikai USC-10, 1.0 m ³ /hr
Sewage Treatment Plant	1 x 43 persons, Hamworthy Super Trident ST4A

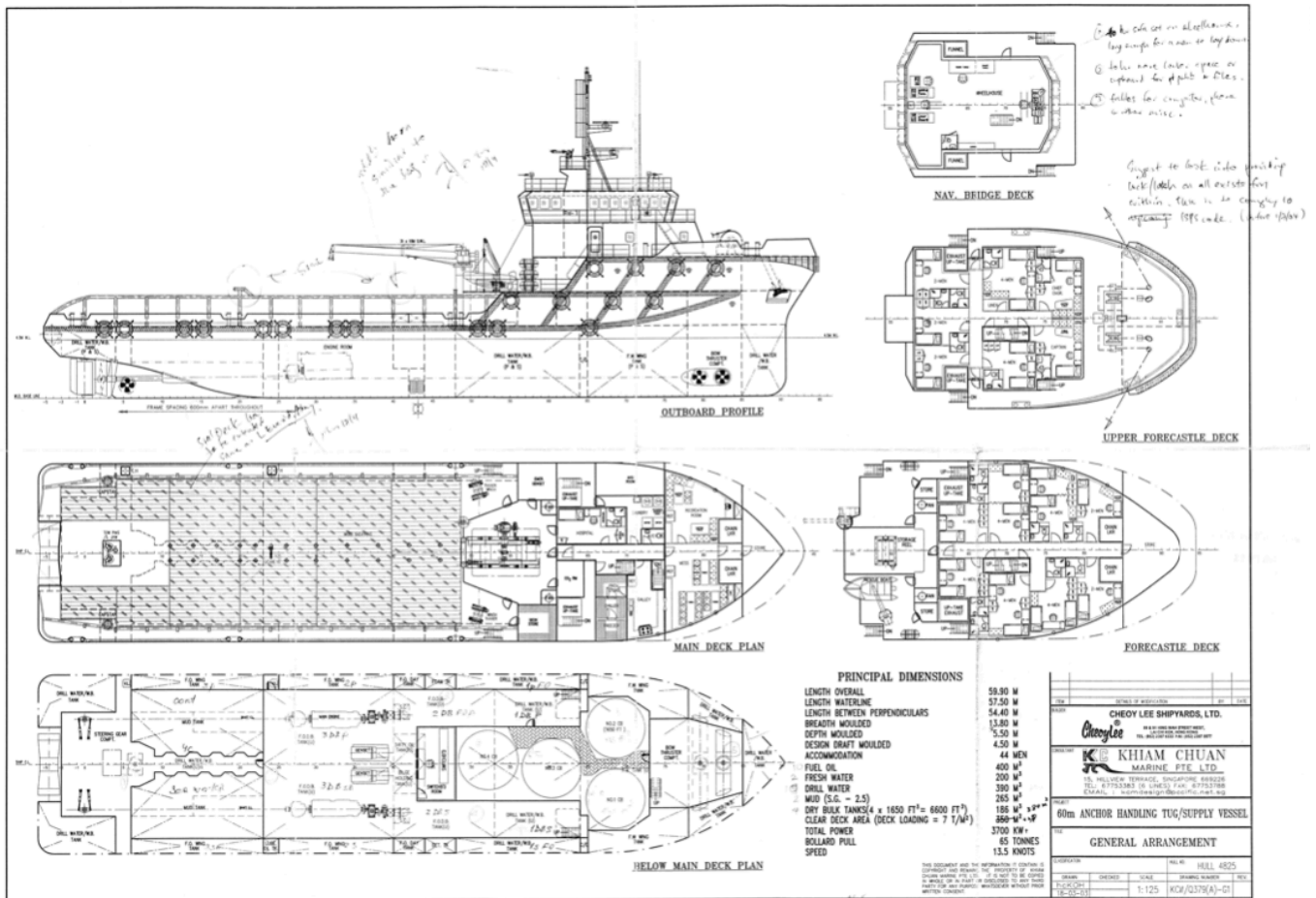
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GENERAL ARRANGEMENT



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