



60 M ANCHOR HANDLING TUG - SUPPLY VESSEL FIFI BHP 5220 BHP 65 T BOLLARD PULL

PRINCIPAL PARTICULARS

Length Over All	: 60.10 m
Length W.L	: 58.74 m
Breath Molded	: 16.00 m
Depth Molded	: 5.50 m
Draft Moulded (Design)	: 4.20 m
Draft Moulded (Max)	: 4.85 m
Class	: Bureau Veritas
Flag / Port of Registry	: Malaysian / Port Kelang
Built	: 2009
Official No.	: 334057
IMO No.	: 9545261
Call Sign	: 9MIM2
MMSI No.	: 533000482
Hull No.	: 20072
GRT / NRT	: 1669 / 500 MT
Place of Built	: Muhibbah Marine Engineering

PERFORMANCE

Performance Speed	: 13 knots
Economical Speed	: 11 knots
Endurance	: 22 days

CARGO CAPACITIES

Deck Cargo	: 600 mt
Cargo Deck Area	: 390 m ²
Potable Water	: 550 m ³
Fuel Oil	: 522 m ³
Drill Water / SWB	: 550 m ³
Foam & Detergent Tank	: 10 m ³ each
Dry Bulk Tank	: 170 m ³
Liquid Mud Tank	: 177 m ³
Base Oil / Brine Tank	: 159 m ³

DISCHARGE RATES

Fuel Oil	: 100 m ³ /Hr @ 90m H
Portable Water / Drill	: 100 m ³ /Hr @ 90m H
Base Oil	: 1 x 100 m ³ / Hr @ 90 m H
Liquid Mud	: 2 x 90 m ³ / Hr @ 90 m H 150hp x 2900 rpm for S.G 2.0
Bulk Cement	: 13.0 m ³ /min, working pressure 5.6 bar
Fresh Water Maker	: 5.5 m ³ / 24 hrs (240 lit/hr)

PROPULSION SYSTEM

Main Engines	: 2 x 2610 Bhp @ 750 rpm Yanmar 6EY26
Auxiliary Engines	: Caterpillar 3406C DITA, 2 x 245 Ekw x 415V x 3ph x 1500 rpm
Shaft Alternator	: Leroy Somer, 2 x LSA M50. 154- 4P, 700 kW 50 Hz
Bow Thruster (Electric motor driven)	: 1 x HRP 4008 TT CP 8 mt thrust, 515 kW, 1800 rpm
Propellers	: 2 x CPP in fixed nozzle, Berg BCP 690
Gear Box	: Reintjes, LAF 2346 K41
Steering Gear	: Wagner / Nufoss Steering System, TWIN LA2 4.4-45-CB2
Emergency Generator	: 1 x Caterpillar, 86EKW, 415 V, 3 ph, 50 Hz @ 1500 rpm

TOWING/ANCHOR HANDLING EQUIPMENTS

Bollard Pull	: 65T
Towing Winch	: Double drums waterfall type, 200mt stall pull x 1000m x 52mm wire rope
Stern Roller	: 1.8m dia x 3.5m length 200 tons SWL
Karm Fork	: 1 set Karmoy Ref.: M330120 SWL 300 tons
Towing Pins	: 1 set, Zicom, SWL 180 mt
Storage Reel	: 1 x 5 ton @ 0-20m / min

DECK EQUIPMENTS

Capstan	: 2 x 6T @ 0-24m / min
Tugger Winch	: 2 x 10T @ 0-15m / min
Deck Crane	: Type ATB 58/8 @ 5m
Anchor Windlass	: 10T @ 0-12m / min max duty, 40mm chain
Anchor	: 2 x 1590kg Stockless bower anchor

ACCOMMODATIONS

Complement	: 28 men
All cabins fully air-conditioned	
Walk-in Freezer Space	: 10.0 m ³
Walk-in Chiller	: 12.0 m ³

RADIO & NAVIGATION EQUIPMENTS

SSB	: 1 x Furuno FS-1570, 150W MF / HF
VHF	: 2 x JRC JHS-770S
Radar	: JRC, JMA-5312-6 & 5210-6
Echo Sounder	: JRC JFE-380
Gyro Compass	: Yokogawa CMZ-700B M
GMDSS	: Area 3
Magnetic Compass	: 1 x Lilley & Gillie MK2000
Speed Log	: 1 x JRC, JLN-250
Auto Pilot	: 1 x Navitron PID, NT991G MKII
Navtex Receiver	: JRC NCR-333
GPS Navigator	: 2 x JRC, NWZ-4570
Joystick	: 1 x Intergrated Joystick Control
EPIRB	: 1 set GME, MT 403FF
AIS	: 1 x JRC, JHS-182
Fleet Broadband	: 1 set Thrane & Thrane FB 250
Fax	: 1 set

FIRE FIGHTING EQUIPMENTS (FIFI Class I)

<u>External</u>	
Fire Pump	: Kvaerner, 2 x 1500 m ³ / hr
Fire Monitor	: 2 monitors (water & foam, manual & remote control)
Oil Dispersant Boom	: Fitted
<u>Internal</u>	
CO2 system in engine room	: Fitted
Emergency Fire Pump	: 1 x 40 m ³ /hr @ 60 mH, 15 kW. Bombass Azcue BA VM-50/26

LIFE SAVING & H.S.E. EQUIPMENTS

Search Lights	: 2 x 2000W halogen
Floodlights	: 6 x 1000W halogen
	: 2 x 500W halogen
Life Jacket	: 28 + 6 spare jackets
Liferafts	: 4 x 15 men capacity
Lifebuoys	: 9 pcs SOLAS approved
Fireman Suits	: As per SOLAS requirement
Immersion Suits	: As per SOLAS requirement
Scrambling Net	: 2 pcs
Rescue Boat	: semi-rigid "Narwhal" 6 person @ c/w 30 hp Outboard Motor
Slewing Davit	: As per SOLAS requirement

AUXILIARY MACHINERIES

G.S and Fire Pump	: 1 x 60 m ³ /hr @ 60 mH, 18.5 kW, Bombass Azcue BA WM-EP
Bilge and Ballast Pump	: 1 x 60 m ³ /hr @ 60 mH, 18.5 kW, Bombass Azcue BA WM-EP
Lub Oil Purifier	: 2 x 800 l/hr, Mitsubishi Kaisha, model SJ10G, self-cleaning
Fuel Oil Purifier	: 1 x 1250 l/hr, Mitsubishi Kaisha, model SJ1-G, self cleaning
Sewage Treatment Plant	: DVZ FSU-1000, 1.0 m ³ /hr holding tank, 28-man cap, Marpol compliance-1000, 1.0 m ³ /hr @ 25mH, <15ppm, IMO Resolution compliance
Oily Water Separator	

OTHERS

Reefer Points	: 4 x 32 amp. 415/3/50Hz
	: 4 x 16 Ampsm 240/1/50Hz
Welding Machine	: 1 set complete with 90 m length