

TWO LEKIU

AHTS 65MT BOLLARD PULL / 5,150 BHP / FIFI 1

Vessel Specifications



REGISTRATION/CLASSIFICATION		
Owner	TOM Lekiu Sdn. Bhd.	
Operator	Two Offshore Marine Sdn. Bhd.	
Flag/Port of Registry	Malaysia/Port Kelang	
Year Built	2013	
Classification	RINA	
Notation	A1 Towing Vessel FIFI 1	
Call Sign.	9M3454	
IMO No.	9710452	

PRINCIPAL DIMENSIONS		
Length Overall	60.50 meters	
Breadth	14.60 meters	
Draft	4.50 meters	
Depth	5.50 meters	
GRT	1,522 T	
NRT	457 T	
DWT	1,400 T	

MACHINERY & PROPULSION			
Main Propulsion Number	2		
Main Propulsion Type	Caterpillar 3516C		
Total BHP	5,150		
Propellers	2 x Berg CPP in fixed nozzles		
Bow Thruster	1 x 8.0T controllable pitch type		
Main Generators	2 x 450kw/415V/3P/50Hz		
Emergency Generators	1 x 65kw/415v/3P/50hz		
Shaft Alternator	2 x Leroy Summer 900KW		
Reduction Gear	2 x Twindisc MGR (P) 1817VC		

SPEED		
Max Speed	12 knots @ 100% MCR	
Eco Speed	10 knots @ 85% MCR	

Cargo Capacity		
Deck Space	370 m ²	
Deck Strength	7.0 T/m2	
Fuel Oil	520 m ³	
Fresh Water	213 m ³	
Ballast / Drill Water	460 m ³	
Mud	260m³	

Discharge Rates			
Fuel Oil	150 m3/hr at 75 m head		
Fresh Water	100 m3/hr at 75 m head		
Drill Water	100 m3/hr at 75 m head		
Mud	2 x 70 m3/hr @ 75 m head		

DECK EQUIPMENT		
Windlass	1 x Electro-hyd type of 9 MT @	
	12m/min for 40mm dia chain	
Anchor	2 x high hold type, stowed in anchor	
	pockets each of 1305 kg	
Capstan	2 x Electro-hyd type of 5 MT @	
	15m/min	
Tugger Winch	2 x Electro-hyd type of 10 MT @	
	15m/min	
Storage Reel	1 x hydraulic type of 5 MT @ 15m/min	
	with drum capacity of 56mm dia x	
	1000m	
Deck Crane	1 x Marine Crane of 3 MT SWL @ 9m	

TOWING & ANCHOR HANDLING			
Bollard Pull	65.0 tons		
Tow/AH winch	1 x Electro-hyd driven, double drum,		
	waterfall		
	type, c/w spooling device for towing		
	winch		
	Drum pull : 150 MT (1st layer)		
	Brake holding: 200 MT		
	Drum Capacity: 56mm x 1000m		
Towing pins	2 x vertical hydraulic retractable type @		
	approx. 200 T		
Tugger winch	2 x electro hydraulic type of 10 MT @		
	15m/min		
Stern Roller	dia 1.6m x 5m length, SWL 200 MT		
Shark Jaws	1 x hydraulic retractable type @ 200		
	MT SWL		

NAVIGATION & COMMUNICATIONS EQUIPMENT		
X-band radar	1 set FURUNO FAR-2117BB, 1 set	
	FURUNO 1935	
Echo sounder	1 set FURUNO FE-700	
Gyro compass	1 set Roberson GC-80	
Magnetic compass	1 set Saura M150	
Autopilot & steering	1 set FURUNO NP60	
gear		
Weather facsimile	1 set FURUNO FAX-408	
receiver		
Doppler speed log	1 set FURUNO DS-80	
AIS	1 set FURUNO FA-150	
FM/VHF	2 sets FURUNO FM-8900S	
Radiotelephone		
EPIRB	1 set McMurdo E-5	
2 way portable VHF	3 sets McMurdo R2	
radios		
SART	2 sets McMurdo S-4	
Navtex Receiver	1 set FURUNO NX-700B	
GMDSS Area A3	1 set FURUNO FS-2575	
Inmarsat-C	2 sets FURUNO Felcom-18	



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EMERGENCY RESPONSES & FIRE FIGHTING CAPABILITIES (FIFI 1)

External FF 1 c/w water spray 2 x 1500 m3/hr @ 130 MLC Fire pump Fire monitor 2 x 1200 m3/hr @ 12 bar Foam tank capacity 13 m^3 Dispersant capacity 13 m³ 2 x independent sea chest Internal Emergency fire pump Fixed system in E/R CO2 system in engine room Fire Detection System All living space and ER Firemain and 12 hydrants Fireman's outfits Portable fire extinguishers

 Others

 Rescue Zone
 Port & Stbd Main Deck 2m wide

 LSA

 Search lights
 3 x 2000W capable 360 degree

rotation
Liferafts 6 x 25 Pax
Lifebuoys 8 pcs
Life jackets 53 pcs
First aid kit 1 set
Immersion suit 3 pcs
Rescue boat 1 x 6 men c/w 25HP motor and

davit launching
EEBD 6 + 1 sets

	EXTRA E	QUIP	MENTS
W bydrophoro plant			1 v 2 r

FW hydrophore plant
SW hydrophore plant
FW maker
Swage holding & treatment system for 42 ppl
Oil Water Separator
Central water heating system

1 x 2 m3/hr @ 35 m head
1 x 2 m3/hr @ 35 m head
1 x RO type of 5 T/day
1 x 1 m3/hr with oil content less
than 15 ppm
1 set c/w 300 L tank

DYNAMIC POSITIONING SYSTEM

- 2 x Position Reference System
- 2 x Wind Sensors
- 1 x Motion Reference System
- 2 x Gyro Compass
- 1 x UPS
- 1 x Control Station with two computer system of joystick and DP system

ACCOMMODATION		
Berths	2 x 1 berth cabins	
	4 x 2 berth cabins	
	8 x 4 berth cabins	
	Total = 42 pax	
Hospital	1 x 1 berth cabin	
All cabins are fully air conditioned		
Chiller & freezer	15 m ³	
Provision store	15 days	

