



**DESB MARINE  
SERVICES  
SDN BHD.**

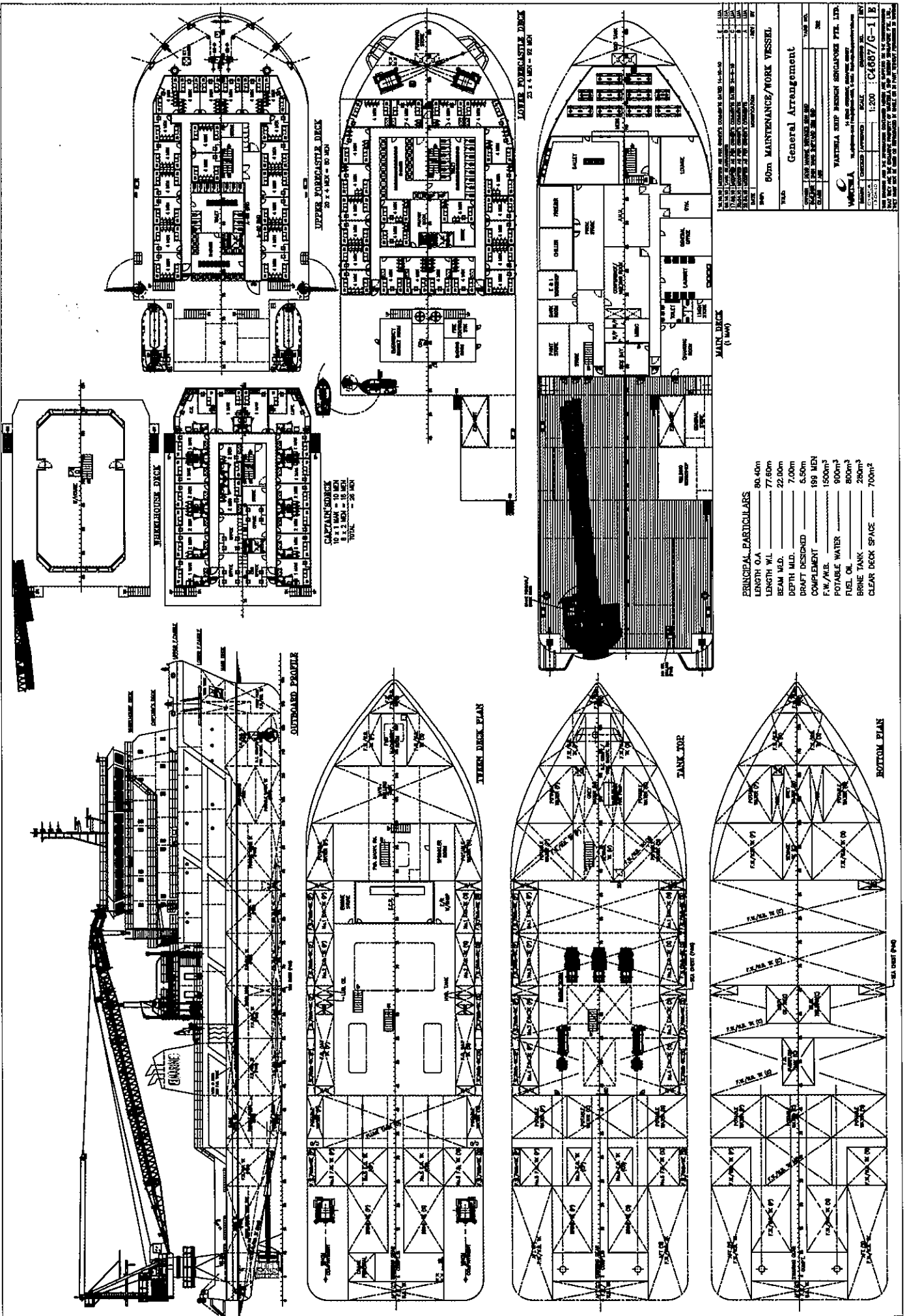
**PROVIDING SERVICES TO THE  
MARINE/OFFSHORE INDUSTRIES**

**M.V. "DAYANG TOPAZ"  
80.40 M MAINTENANCE / WORK VESSEL**

**TECHNICAL SPECIFICATIONS**

<b>No</b>	<b>Item</b>	<b>Specification</b>	<b>No</b>	<b>Item</b>	<b>Specification</b>
01.	Vessel Name	Dayang Topaz	18	Propulsion Machineries	
02	Type of Vessel	Maintenance/Work Vessel	a)	Main Engines	2 x CATERPILLAR 3512B @ 2012BHP
03	Call Sign	(TBA)	b)	Marine Gearbox	2 x Twin Disc MG5600
04	Plying Limit	Malaysia Near Coastal Trade	c)	Propeller	2 x 2100mm Mg bronze fixed pitch propellers
05	Classification	American Bureau of Shipping (ABS)	d)	Bow Thruster	1 x KAWA (FPP) 10T tunnel thruster
06	Class Notation	*A1 (*AMS, Offshore Support Vessel,	19	Navigation & Communication Equipments.	
07	Port of Registry	Special Purpose Ship (SPS) Code	a)	GMDSS	FURUNO FM-8800S - Area 3
08	Flags	Labuan	b)	Gyro Compass	1 x YOKOGAWA CMZ900B
09	Horse Power	Malaysia	c)	Radar	2 x FURUNO FAR-2137S & FAR-2117
10	Cruising Speed	2 x 2012BHP	d)	Echo sounder	1 x FURUNO FE-700
11	Endurance	10 Knots at 85% MCR at half load condition 40 days / 5000NM range.	e)	SART	2 x SevenstarS701
12	Fuel Consumption		f)	EPIRB	1 x GME MT-403F
	Cruising Speed Generator	600 Litres/hour (approx.) 118 Litres/hour/engine (approx.)	g)	Navtex Receiver	1 x FURUNO NX700B
13	Main Characteristics.		h)	Autopilot	1 x SIMRAD AP50
	L.O.A	80.40 M	i)	Speed Log	1 x BEN MARINE
	Breath Moulded	22.00 M	j)	GPS Plotter	1 x FURUNO GP-150
	Depth Moulded	7.00 M	k)	AIS	1 x FURUNO FA150
	Max Draft	5.30 M	l)	Magnetic Compass	1 x Daiko Keiki SR150
	Deck Strength	10 MT / m <sup>2</sup>	20	Accommodation	Fully air conditioning total 199 berths, 1 x Hospital; 1 x Conference Room; 1 x Recreation Room & 5 x Offices
	Clear Deck space	700 m <sup>2</sup> (approx.)	21	Fire Fighting Equipments.	
	Deck Cargo	400 MT	a)	External Fire Pump	1 x 300 m <sup>3</sup> /hr @ 10-12 bar
	Deadweight	4800 MT at 5.3m draft (approx.)	b)	Fire Monitor	2 x 150 m <sup>3</sup> /hr @ 10-12 bar
14	Capacity		c)	Fire Extinguish system	Fixed Co2 system for Engine Room & Bow Thruster Compartment.
	Fuel Oil	800 m <sup>3</sup> (approx.)	d)	Sprinkler system	As per latest SOLAS 74/78 requirements
	Fresh Water	900 m <sup>3</sup> (approx.)	e)	Fire Hydrants and Extinguishers	As per latest SOLAS 74/78 requirements
	SWB/FW	1500 m <sup>3</sup> (approx.)	22	Life Saving Appliances.	As per latest SOLAS 74/78 & Flag Admin requirements
	Lub Oil Storage	10m <sup>3</sup> (approx.)	23	Other Equipments.	
	Sewage holding tank	30 m <sup>3</sup> (approx.)	a)	Life Boat	2 x 75 men SOLAS Approved Type
	Dirty Oil tank	15 m <sup>3</sup> (approx.)	b)	Life Raft	4 x 25 men SOLAS Approved Type
	Hydraulic Oil Tank	15 m <sup>3</sup> (approx.)	c)	Rescue Boat	1 x 6 men Rigid type c/w davit & 65 HP Yamaha outboard engine
	Water Maker (RO)	2 x 35T/day	d)	Manoverboard	2 x COMET / IKAROS
	Brine tank	280 m <sup>3</sup> (approx.)	e)	Deck flood light	16 x 400W deck flood lights
15	Auxiliaries		f)	Compressor	2 x 5 kW electric driven
	3 x Caterpillar C32	3 x Caterpillar C32	g)	Sewage Treatment	1 x Hamworthy ST-15
	Main Genset 590 kW / 415V / 3Ph / 50Hz.	Main Genset 590 kW / 415V / 3Ph / 50Hz.	g)	Others	1 x Garbage Compactor
	1 x Cummins 6CTA 8.3 D/ Stamford	1 x Cummins 6CTA 8.3 D/ Stamford	24	Owner	DESB Marine Services Sdn Bhd.
	Emergency Genset 150 kW / 415V / 3Ph / 50 Hz.	Emergency Genset 150 kW / 415V / 3Ph / 50 Hz.	25	Designer	Wartsila Ship Design Pte Ltd.
16	Pumps		26	GRT/ NRT	4800T (approx.)/(TBA)
	Bilges/Ballast Pump	1 x 75 m <sup>3</sup> /hr @ 45m Total Head	27	Year Build	Dec 2010
	G.S./Fire pump	1 x 75 m <sup>3</sup> /hr @ 45m Total Head	28	Yard	YD326 -Shin Yang Shipyard Sdn Bhd, Miri
	Service Fire Pump	3 x 75 m <sup>3</sup> /hr @ 70m Total Head	29	Official Number	(TBA)
	Fuel Oil Transfer Pumps	1 x 15 m <sup>3</sup> /hr @ 18m Total Head & 1 x 50 m <sup>3</sup> /hr @ 57m Total Head	30	IMO No.	(TBA)
	Fresh Water Pump	1 x 60 m <sup>3</sup> /hr @ 40m Total Head			
	Emergency fire pump	1 x 35 m <sup>3</sup> /hr @ 45m Total Head			
17	Deck Machineries				
	Capstans	2 x 5MT Plimssoll Hydraulic Capstans			
	4-point Mooring	4 x single drum c/w auto spooling, 120T @ 1 <sup>st</sup> layer w/ 44mm dia x 1200 wire rope, fitted with four (4) x 5000kgs Delta Flipper Anchors			
	Deck Crane	1 x Favelle Favco model 8/10K Lattice Boom type offshore marine crane accordance to API 2C, 45T SWL.			

**Particulars Given In Good Faith And Are Believe To Be Correct But Not Guaranteed At The Time Of Printing**



**PRINCIPAL PARTICULARS**

LENGTH O.A.	96.40m
LENGTH W.L.	77.80m
BEAM M.D.	22.00m
DEPTH M.D.	7.00m
DRAFT DESIGNED	5.50m
COMPLEMENT	189 MEN
P.W./M.E.	1500m <sup>3</sup>
POTABLE WATER	900m <sup>3</sup>
FUEL OIL	800m <sup>3</sup>
BRINE TANK	280m <sup>3</sup>
CLEAR DECK SPACE	700m <sup>2</sup>

**90m MAINTENANCE/WORK VESSEL**

**General Arrangement**

NO.	1
DATE	1987
SCALE	1:200
PROJECT NO.	104687/G-1
DESIGNER	WARTSILA
CONTRACT NO.	
SHIP NO.	
SHIP NAME	
SHIP TYPE	
SHIP NO.	
SHIP NAME	
SHIP TYPE	

WARTSILA SHIP DESIGN SERVICES PTE. LTD.  
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