



M.V. "DAYANG TOPAZ"

80.40M MAINTENANCE / WORK VESSEL

TECHNICAL SPECIFICATIONS

<u>No</u>	<u>Item</u>	<u>Specification</u>	<u>No</u>	<u>Item</u>	<u>Specification</u>
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	9WLJ4	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 electric motor driven tunnel thruster
06	Class Notation	* A1 { * AMS, Offshore Support Vessel, Special Purpose Ship (SPS) Code	19	Navigation & Communication Equipments.	
07	Port of Registry	Kuching	a)	GMDSS	FURUNO FM-8800S - Area 3
08	Flags	Malaysia	b)	Gyro Compass	1 x YOKOGAWA CMZ900B
09	Horse Power	2 x 2012BHP	c)	Radar	2 x FURUNO FAR-2137S & FAR-2117
10	Cruising Speed	10 Knots at 85% MCR at half load condition	d)	Echo sounder	1 x FURUNO FE-700
11	Endurance	40 days / 5000NM range	e)	SART	2 x Sevenstar S701
12	Fuel Consumption		f)	EPIRB	1 x GME MT-403F
	Cruising Speed	600 Litres/hour (approx.)	g)	Navtex Receiver	1 x FURUNO NX700B
	Generator	118 Litres/hour/engine (approx.)	h)	Autopilot	1 x SIMRAD AP50
13	Main Characteristics.		i)	Speed Log	1 x BEN MARINE
	L.O.A	80.40 M	j)	GPS Plotter	1 x FURUNO GP-150
	Breath Moulded	22.00 M	k)	AIS	1 x FURUNO FA150
	Depth Moulded	7.00 M	l)	Magnetic Compass	1 x Daiko Keiki SR150
	Max Draft	5.30 M	20	Accommodation	Fully air conditioning total 199 berths, 1 x Hospital; 1 x Conference Room; 1 x Recreation Room & 5 x Offices
	Deck Strength	10 MT / m ²	21	Fire Fighting Equipments.	
	Clear Deck space	700 m ² (approx.)	a)	External Fire Pump	1 x 300 m ³ /hr @ 10-12 bar
	Deck Cargo	800 MT	b)	Fire Monitor	2 x 150 m ³ /hr @ 10-12 bar
	Deadweight	6600 MT at 5.3m draft (approx.)	c)	Fire Extinguish system	Fixed CO ² system for Engine Room & Bow Thruster Compartment.
14	Capacity		d)	Sprinkler system	As per latest SOLAS 74/78 requirements
	Fuel Oil	800 m ³ (approx.)	e)	Fire Hydrants and Extinguishers	As per latest SOLAS 74/78 requirements
	Fresh Water	900 m ³ (approx.)	22	Life Saving Appliances.	As per latest SOLAS 74/78 & Flag Admin requirements
	SWB/FW	2600 m ³ (approx.)	23	Other Equipments.	
	Lub Oil Storage	16 m ³ (approx.)	a)	Life Boat	2 x 75 men SOLAS Approved Type
	Sewage holding tank	30 m ³ (approx.)	b)	Life Raft	4 x 25 men SOLAS Approved Type
	Dirty Oil tank	20 m ³ (approx.)	c)	Rescue Boat	1 x 6 men Rigid type c/w davit & 65 HP Yamaha outboard engine
	Hydraulic Oil Tank	16 m ³ (approx.)	d)	Manoverboard	2 x COMET / IKAROS
	Water Maker (RO)	2 x 35T/day	e)	Deck flood light	16 x 400W deck flood lights
	Brine tank	280 m ³ (approx.)	f)	Compressor	2 x 5 kW electric driven
15	Auxiliaries	3 x Caterpillar C32 Main Genset 590 ekW, 415V/3Ph/50Hz. 1 x Cummins NTA855D(M) Emergency Genset 245 ekW, 415V/3Ph/50 Hz.	g)	Sewage Treatment	1 x Hamworthy ST-15
16	Pumps		h)	Others	1 x Garbage Compactor
	Bilges/Ballast Pump	1 x 75 m ³ /hr @ 45m Total Head	24	Owner	DES Marine Services Sdn Bhd.
	G.S./Fire pump	1 x 75 m ³ /hr @ 45m Total Head	25	Designer	Wartsila Ship Design Pte Ltd.
	Service Fire Pump	3 x 75 m ³ /hr @ 70m Total Head	26	GRT/ NRT	5089T / 1526T
	Fuel Oil Transfer Pumps	1 x 15 m ³ /hr @ 18m Total Head & 1 x 50 m ³ /hr @ 57m Total Head	27	Year Build	January 2012
	Fresh Water Pump	1 x 60 m ³ /hr @ 40m Total Head	28	Shipyard/Hull No.	Shin Yang Shipyard Sdn Bhd, Miri / YD362
	Emergency fire pump	1 x 35 m ³ /hr @ 45m Total Head	29	Official Number	333396
17	Deck Machineries		30	IMO No.	9622863
	Capstans	2 x 5MT Plimsoll Hydraulic Capstans			
	4-point Mooring	4 x single drum c/w auto spooling, 120T @ 1 st 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 @ 41.2m boom length.			

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