

NORWEGIAN PACIFIC MARITIME INC.



MV NORTHERN LIGHT

GENERAL INFORMATION	
Built	Imamura Shipyard, Kure, Japan 1986. Rebuild in 2013 , new Kongsberg DP2 and Kongsberg Auto-Chief with thruster control etc. New accommodation and Bridge equipments.
Flag	TUVALU
Port of Registry	FUNAFUTI
Call Sign	T2BG4
Official No.	26418612
IMO No.	8518182
Classification	ClassNK NS (TUG.SV) (DPS B) MNS (MO)
DIMENSIONS	
Length, Overall	64.0 meters
Length, BP	54.0 meters
Breadth, moulded	15.0 meters
Depth, Main deck	7.5 meters
Design draft	6.6 meters
GRT	2,424 ton
NRT	728 ton
CAPACITIES	
Deadweight (max)	2,087 ton
Clear Deck Area	33 m x 12 m = 396 m ²
Deck Strength	5 ton / m ²
Deck Cargo	850 ton
Fuel	685 m ³
Potable Water	485 m ³
Ballast Water / Drill	

Brine/DMA	
Glycol/Liquid Mud	162 m ³
Liquid Mud	331 m ³
Dry Bulk	204 m ³ (7200 cubic feet) in 4 tanks (2 x 39.6 m ³ plus 2 x 62.7 m ³ tanks)
Ship's Stores	Freezer: 6.8 m ³ at -20 ⁰ C Chiller: 8.8 m ³ at +4 ⁰ C Dry Store: 12.0 m ³
MACHINERY	
Main Engines	4 x 2,000 BHP = Total 8,000 BHP Yanmar Z280A-ET 650 rpm
Auxiliary Generators	2 x 400 KW, 445V, 60Hz Main alternators, driven by Yanmar diesels
Bow Thruster	2 x 800 BHP. KHI KT105B thrusters driven by Yanmar diesel engines, each producing 10 ton thrust
Stern Thruster	1 x 800 BHP. KHI KT88B thruster driven by Yanmar diesel engine, producing 9.2 ton thrust.
Auxiliary Generator	1 x 120 KW, 445 V, 60 Hz harbor alternator, driven by Yanmar Diesel Engine
Emergency Generator	1 x 24 KW, 225 V, 60 Hz emergency alternator, driven by Yanmar Diesel Engine

Water	780 m ³
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Bldg 1 Cebu Yacht Club, Pusok Lapu-Lapu City 6015; Tel No: (032) 3413853; Mobile 0917-3200016; email:subsee@mozcom.com; website: www.subsee-philippines.com

PROPULSION	
	- Two CPP Propellers with Kort Nozzle - Trailing flap rudders for increased maneuverability
TOWING AND ANCHOR HANDLING	
Bollard Pull	93.3 tonnes
Main Winch	Hydraulic Brattvaag SL250 W/BSL 250WX double drum waterfall hydraulic unit, Towing 250 ton at 6 m / min to 32 ton at 18 m / min A / handling 250 ton at 6 m / min to 8 ton at 78 m / min
Rig Chain Locker	2 x 82 m ³ with total holding capacity of 4,200 feet of 3" (76 mm) chain
Stern Roller	2 m diameter x 4 m length. 250 ton SWL
Tow Pins / Guide Pins	Twin Karmoy pins with horizontal locking top
Wire Chain Stopper	Karmoy Karmfork KW300, SWL 500 ton
Wire Storage Reel	1 x hydraulic 8 ton capacity 1200 m x 64 mm diameter
DECK MACHINERY	
Tuggers	2 x hydraulic 10 ton capacity
Windlass	1 x hydraulic 24 ton capacity with rope mooring drum
Smit Towing Bracket	Located on the bow
Crane Capacity	MTT Electro-hydraulic capacity 10 ton x 8 m outreach with 200 m subsea capacity, auto tension
ELECTRONICS	
Main Radar	2 Sperry Bridge Master
ECDIS	Sperry
DP System	Kongsberg DP II with cJoy
Auto Pilot	Simrad AP 70
Gyro Compass	3 x Sperry MK 1
Echo Sounder	Simrad ED162
DGPS	Dassault Sercel NR109 GPS – JRC NWZ-4550 and Furuno GP-90
Speed Log	Tokyo Keiki TD 201
Communications	G.M.D.S.S. (Global Maritime Distress & Safety System) AREA 1-2-3. 1 x MF/HF SSB 4 x VHF 2 x Inmarsat C 456310640 / 456310650 3 x VHF (portable) 2 x SART 1 x EPIRB 1 x Navtex

	terminal 1 x Mini-M Satellite phone 1 x LRIT 1 x SSAS BNWAS
Weather Fax	Furuno Fax 207
DISCHARGE PUMPS	
Fuel Oil	1 x 150 m ³ / hr @ 9.0 bar
Potable Water	1 x 150 m ³ / hr @ 9.0 bar
Drill Water	1 x 150 m ³ / hr @ 9.0 bar
Liquid Mud	3 x 90 m ³ /hr 6.0 bar
Brine / Mud	1 x 50 m ³ / hr @ 11.0 bar
Dry Bulk	80 cbm/hr – 5.6 bar (2 compressors)
PERFORMANCE	
Speed / Fuel	Max. Speed 15.50 knots at 100% MCR, on 4 engines – Consumption approximate fuel consumption 29 ton per day Max. Speed 10.41 knots at 100% MCR on 2 engines – Approximate fuel consumption 9.6 ton per day Economical Speed 14.00 knots at 85% MCR, on 4 engines – approximate fuel consumption 23 ton per day Economical Speed 10.13 knots at 85% MCR, on 2 engines – approximate fuel consumption 7 ton per day
EXTERNAL FIRE FIGHTING	
Capacity	2 x 1,800 = 3,600 m ³ / hr, 12 bar
Monitors	2 x 1,800 m ³
Throw Length	150 m
Throw Height	70 m
STANDBY RESCUE EQUIPMENT	
	100 survivors. All equipment and capacities to UK DOT recommendations NOREQ FRB 610 rescue boat with 1 x 60HP outboard, 8 man capacity Ship's hospital – 1` berth
ACCOMMODATIONS	
Berths	3 x 4 berths / ensuite bathroom 36 x 1 berths / ensuite bathroom 6 x 2 berths / ensuite bathroom 60 berths total 3 x Rec. room / mess room 1 x galley All living space fully air- conditioned

	1 x Iridium Satellite phone / data
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MISCELLANEOUS	
	Wood sheathed main deck
	Fully equipped deck workshop
	Cargo control centre in wheelhouse with fuel, water and glycol meters
	Sewage holding tank
	Through hull penetration for acoustic transponder pole mounting
	Statutory life-buoys, life jackets, pyrotechnics
	3 x Searchlights, and deck flood lights
	2 x Parkair Aeronautical communications (for helicopter)
	P.A. System
	TV and video
	4 x 440V x 60Hz, 3 phase refer points
ANTI- POLLUTION	
Dispersant Tank	6 cubic meters