

# 100T BP MULTI-ROLE VESSEL



## WARTSILA DESIGN, 67M X 16M, 100T BP, FIFI 2, DNV, CLEAN, DYNPOS-AUTR (DP2), SPS, EO, 62 MAN, COMFORT (V3), ERN 99,99,99,99

Manager **NORTRANS OFFSHORE PTE LTD**  
 Class/Notation **DNV Clean + 1A1, AHTS, SPS, Clean, Offshore Service Vessel, Dynpos-AUTR (DP2+), EO, Fire Fighter 2, Comfort Class V(3), Oil Recovery/Standby Ready, TMON, Recyclable, BIS for Unrestricted Service**  
 Vessel Name **NOR SOLAN**

### PRINCIPAL PARTICULARS

Length Overall	67.20 m
Length BP	58.90 m
Breadth Moulded	16.00 m
Depth Moulded	6.50 m
Draft (designed)	5.00 m
GRT/NRT	2447/735
Built	2014
Flag	Singapore

### ACCOMMODATION

Office	2 x offices		
Berths	1 berth	6 cabins	6 men
	2 berth	5 cabins	10 men
	4 berth	<u>11 cabins</u>	<u>44 men</u>
Total	<u>22 cabins</u>		<u>60 men</u>
Hospital	2 x berth cabin		
All cabins fully air-conditioned and with attached washroom.			

### PROPULSION SYSTEM

Main Engines	2 x 3575PS/2666kw, <b>MAK 8M25C</b>
Main Generator	3 x 620kw diesel driven, 440V/3Ph/60Hz, <b>MAN D2842 LE 301</b>
Shaft Generator	2 x 1200kw, <b>Leroy Somer</b>
Emergency Generator	1 x 150kw, <b>MAN</b>
Bow Thruster	2 x 950kw FPP with frequency converter, <b>Wartsila</b>
Stern Thruster	2 x 500kw CPP, <b>Wartsila</b>
Gearbox	<b>Renk</b>
Propulsion	<b>Berg</b>
DP	<b>Kongsberg DP2 System K-Chief, 500mm Hipap valve HL2180</b>
Power Management System	<b>Kongsberg</b>
Switchboard/Electrical Motors	<b>ABB</b>

### PERFORMANCE

Maximum Speed	15 knots @ 100% MCR (tbc)
Economical Speed	10 knots (tbc)
Type of Fuel	Marine Gas Oil
Fuel Consumption	25 tons/24 hours @ 100% MCR (tbc) 6 tons/24 hours @ Economical (tbc)
DP Consumption	6-25 tons/day
Bollard Pull	100 tons (tbc)
ERN	99,99,96,96

### CARGO CAPACITIES

Deadweight	1700 tons approx without SPS < 1200 tons approx with SPS
Deck Cargo	600 mt (approx)
Deck Strength	10 tons front / 7 tons/m <sup>2</sup> aft uniform loading
Deck Area	450 m <sup>2</sup> (approx)
Fuel Oil	600 m <sup>3</sup> (approx)
Fresh Water	350 m <sup>3</sup> (approx)
Ballast/Drill Water	800 m <sup>3</sup> (approx)
Cement/Dry Bulk	215 m <sup>3</sup> (approx)
Liquid mud	325 m <sup>3</sup> (approx)
Brine/ DW/ SWB tank	150 m <sup>3</sup> (approx)
Freezer/Chiller	10 m <sup>3</sup> /10m <sup>3</sup>
Foam/Detergent	20 m <sup>3</sup> /20m <sup>3</sup>
Lub Oil	12 m <sup>3</sup> (approx)
Sewage Holding tank	13 m <sup>3</sup> (approx)
Bilge Holding tank	7 m <sup>3</sup>
NIMO Oil tank	8 m <sup>3</sup>
Hydraulic Oil tank	7.5 m <sup>3</sup>
Oil Recovery	500 m <sup>3</sup> (approx), Flashpoint < 60°C

### PUMPS, Allweiler

Fuel Oil	1 x 150 m <sup>3</sup> /hr @ 80 m head
Fresh Water	2 x 150 m <sup>3</sup> /hr @ 80 m head
SWB/Drill Water	1 x 150 m <sup>3</sup> /hr @ 80 m head
Liquid Mud/Brine/R.O.	2 x screw pump 100 m <sup>3</sup> /hr @ 75 m head
Bilge/Ballast/GS/Fire	2 x 60 m <sup>3</sup> /hr @ 60 m head
Bilge	1 x 10 m <sup>3</sup> /hr @ 40 m head
Bulk Cement Compressor	2 x 13 m <sup>3</sup> /min @ 80psi, <b>Randa Berg</b>
Fresh Water Maker	<b>Jowa</b>

### DECK EQUIPMENT

Towing/Anchor Handling Winch*	<b>Rolls-Royce</b> , 200 tons <b>Brattvaag</b> AH Winch, Hydraulic drive, double drum waterfall type 56 mm dia x 2150 m
Upper Drum (Tow)	56 mm dia x 2150 m
Lower Drum Cap (AH)	56 mm dia x 2150 m
Static Brake	250 tons
Stern Roller	2 m x 4 m, SWL 250 tons, <b>Rolls-Royce</b>
Gypsies	Suitable for 78 mm dia U2 chain
Lock Jaws	2 x Hydraulic SWL 300 tons, <b>Karmoy</b>
Tow Pin	2 x Hydraulic SWL 200 tons, <b>Karmoy</b>
Tugger Winch	2 x 10 mt @ 22 m/min electro hydraulic, <b>Rolls-Royce</b>
Storage Reel	1 x 7 tons @ 29 m/min, <b>Rolls-Royce</b>
Anchor Windlass	1 x 11 tons @ 12 m/min electro hydraulic, <b>Rolls-Royce</b>
Bow Anchors	2 x 1885 kg anchor AC-14
Chains	2 x 467 m x 44 mm (dia), Grade 2
Capstan	2 x 10 tons @ 22 m/min electro hydraulic, <b>Rolls-Royce</b>
Deck Crane, Provision	3 tons SWL at 10 m, <b>TTS</b>
MOB Boat	6 persons, <b>Zodiac</b>
Life Rafts	4 x 20 persons & 4 x 25 persons

### FIRE-FIGHTING 2 EQUIPMENT & ANTI-POLLUTION EQUIPMENT

<b>External</b>	
FIFI System	Class 2 with water curtain all round, <b>FFS</b>
Fire Pump	2 x 3700 m <sup>3</sup> /hr @ 180 mlc head
Monitors	Driven by front PTO ME
Water/Foam	4 x Fire monitors
Oil Dispersant System	2 x Cluster nozzles or overhang boom
<b>Internal</b>	
Emergency Fire Pump	1 x 45 m <sup>3</sup> /hr x 60 m head
BA Recharging Comp	1 x 75 ltr/min @ 200 bar
CO2 system in engine room	

### OPTIONAL DECK/PROPULSION EQUIPMENT/ORO

Azimuth Thruster	1000kw retractable (10 tons extra BP)
Oil Recovery Pumps	
A-Frame	80 tons
AHC Crane	25 tons

### OPTIONAL RESCUE EQUIPMENT

Sea Rescue	1 x Sealift
	1 x TPC rescue crane system
Winching Zone	1 x aft (alternative at the bow)
Search Lights	2 x 2000 Xenon lights
Night Vision	1 x Baigish-6U
Thermal Camera	1 x Flir navigator II remote operated
Surface Surveillance	1 x On line movement reporting AIS, ARPA, Chart etc
FRDC	1 x Norsafe Munin
FRDC Davit	1 x 8 tons SWL single point heave compensated
Stand-by/Rescue Class	NMD "Forskrift 853" 200 persons
Fast Rescue Craft	2 x MP800 Springer 25' with 220 BHP diesel/water jet
FRDC Davit	2 x 4 tons SWL single point heave compensated

Particulars are believed to be correct but not guaranteed. All figures given are approximately only. Owners reserve the right to amend the specifications without notices.

