Polaris
280 Class PSV DP-2 Platform Supply Vessel

REGISTRATION
USCG Official # 1249448
Year Built 2014
Builder Thomas Sea Shipyards
Flag U.S.A.
Classification ABS ✠A1(E) Offshore Support Vessel, ✠AMS, ✠ACCU, ✠DPS-2, FiFi 1, ENVIRIO, SOLAS, USCG Subchapter L/I, Full Oceans

MAIN CHARACTERISTICS
Length Overall 272 ft (82.60 m)
Beam 58 ft (17.67 m)
Depth 20 ft (6.09 m)
Max Draft 16 ft 7 in (5.07 m)
Operating Displacement 5,627 lt (5,893.07 mt)

CAPACITIES
Deadweight 3,524 lt (3,580 mt)
Cargo Deck Area 8,160 ft² (758 m²)
Cargo Deck Dimensions 170 ft x 48 ft (51.8 m x 14.6 m)
Cargo Deck Loading 58 ft (17.67 m)
Fuel Oil Cargo 6,202 bbl (260,486 gal) (986 m³)
Bulk Mud 9,180 ft³ (6 tanks) (260 m³)
Liquid Mud 10,804 bbl (8 tanks) (1,717 m³)
Rig Water 10,389 bbl (436,339 gal) (1,651 m³)
Cargo Fresh Water 1,418 bbl (59,585 gal) (225 m³)

PERFORMANCE
Top Speed 13.5 knots @ 280 gph
Cruise Speed 11 knots @ 162 gph
Economical Speed 10 knots @ 130 gph
DP Mode 55 gph

DYNAMIC POSITIONING SYSTEM (CLASS II)
ABS classed DP2 L3 Platinum Redundant Positioning System consisting of:
2 x DP Operator Stations
3 x SIMRAD MX 512 DGPS Receivers
1 x Cyscan MK IV Laser
1 x GCS Mini-Rada Scan Radar Range and Bearing System (optional)
3 x Gill Wind Sensors
3 x TSS Meridian Gyro Compasses
3 x TSS DMS-SSORP Motion Sensors
1 x Portable Joystick Control System

PROPULSION - MACHINERY
Total Installed Power 7,640 kW (10,245 hp)
Main Engines 4 x 1,730 kW each (2,320 hp each)
Auxiliary Generator 1 x 550 kW (738 hp)
Emergency Generator 1 x 170 kW (228 hp)
Main Propulsion 2 x 2,000 kW each (2,680 hp each) Z-Drives
Retractable Bow Thruster 1 x 840 kW (1,125 hp) retractable azimuthing
Bow Tunnel Thruster 1 x 840 kW (1,125 hp) variable speed thruster

CARGO DISCHARGE
Fuel Oil 750 gpm at 225 ft TDH (170 m³/h at 68 m TDH)
Rig Fresh Water 750 gpm at 200 ft TDH (170 m³/h at 60 m TDH)
Liquid Mud (LM) 1,000 gpm at 225 ft TDH (227 m³/h at 68 m TDH)
LM Segregated System 1 x 170 kW (228 hp)
LM Agitation Hydraulically Driven Mixers
LM Tank Cleaning System Scan Jet
BM Segregated System Integrated / Segregated (3 Tanks each system)

DECK EQUIPMENT
Deck Cargo Crane 1 x 4.9 ft (5 mt)
Anchor Windlass 2
Fire Fighting Class I, 2 x pumps, 2 x monitors

CONTROL & SAFETY
Fully integrated DP / control dual redundant system
Alarm, monitoring and control system for periodically unattended machinery space
Remote control and monitoring of liquid mud and bulk mud cargo systems

ELECTRONICS
2 Radars with ARPA 1 EPIRB (1 radar transponders)
1 Navigation Gyro Compass 3 VHF (bridge to bridge)
1 Autopilot 1 Weather Fax
1 Depth Sounder 1 Navtex
1 Speed Log 1 PA / Loud Hailer
1 Radio System Compliant 1 ECDIS Unit

ACCOMMODATION
Fully Air-conditioned Accommodations for 36 people consisting of:
2 x 1 man cabins
15 x 4 man cabins
Galley, Provision Room, Stores, Mess
Walk in Refrigerator
Walk in Freezer