



## Capabilities

DSV *Joanne Morrison* is a 240 ft saturation dive support vessel with capabilities to perform work in depths as deep as 1,000 ft of seawater and is the largest of its class in the Gulf of Mexico. It hosts all equipment onboard to allow divers to lower into the water through a centralized moon pool and make subsea connections, abandon pipelines and perform various subsea repairs and diving tasks.

It is equipped with a 70-ton hydraulic crane and 1,100 ft of crane wire which is double the capacity of any other 4-point of its class, allowing it to perform larger projects in 500 ft of water and providing a more cost effective option than utilizing a DP vessel. There is 5,750 sq ft of open deck space, making it the largest back deck on a vessel of its class. The sheer size of the open deck space provides more room to load equipment on the initial mobilization and reduces the dependency on extra supply vessel runs during operations.

The vessel consists of a stable working platform with a 4-point mooring system. The saturation diving system is moon pool deployed, providing a safer dive descend due to its centralized location on the vessel. The saturation diving system is capable of supporting six divers, enabling multi-depth operations or ongoing decompression supported by a self-launching hyperbaric rescue chamber (HRC). These features allow for the vessel to safely withstand rough seas and tides that would typically result in weather downtime.

The vessel has four generators on board, a dedicated saturation diving system generator and an emergency generator, further reducing the risk of downtime. With the large capacity for fuel, water and supply, the vessel is self-sufficient for up to 14 days before resupply of grocery, and longer if necessary, before needing to replenish fuel and water.

The vessel's heavy anchors, 1-1/4 in anchor cables and winches allow for a firmer, solid rest on the sea bottom. This stable anchoring avoids the potential for unsafe anchor drags in congested areas during rougher seas.

In 2019, the vessel completed a major dry dock with upgrades to the vessel and diving systems resulting in enhanced performance for safety and operational assurance. The vessel has fully updated certifications, diving systems and capabilities.

The DSV *Joanne Morrison* supports oil and gas operators and transmission companies handling a multitude of projects involving saturation diving in the Gulf of Mexico with a higher level of safety and efficiency than similar vessels of its class.

## General Description

<b>NAME</b>	Joanne Morrison
<b>TYPE</b>	Dive Support Vessel (DSV)
<b>FLAG / CLASS</b>	U.S.A. / ABS
<b>DIMENSIONS</b>	240 ft x 48 ft
<b>OPEN DECK SPACE</b>	5,750 sq ft
<b>CRANE CAPACITY</b>	70-ton hydraulic crane

## Key Features

- 4-point anchor mooring system
- The largest open deck space for a vessel of its class
- The largest crane capacity for a vessel of its class
- Moon pool deployed saturation diving system
- Stable vessel suitable for rougher seas and congested areas

### Specifications

Length	240 ft
Width	48 ft
Molded depth	14 ft
Main deck	46 ft x 125 ft
Open deck space	5,750 sq ft

### Capacity

Fuel	60,000 gal
Water	90,000 gal

### Certifications

Flag	U.S.A.
Classification	ABS / USCG

### Speed

Economic transit	10 knots
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### Accommodations

Total accommodations	54 persons
Dive & support crew	34 persons
Company reps & 3rd party support services	20 persons

### Crane

Tonnage	70-ton Hydraulic
Crane wire	1,100 ft
Model	Mantis model 14010

### Machinery

Engines	(2) 645 EMDs C model
Propulsion	Twin screw
Horsepower	1,500
Main generators	(2) 300 kw
Emergency generators*	(1) 375 kw
Saturation generators	(1) 275 kw

\* Emergency generator can run both main and saturation

### Station Keeping

Winches	(2) SMATCO double drum
Wire	(4) 6,000 x 1-1/4 in wire
Anchors	Two (2) 17,000 lbs and (2) 15,000 lbs

### Diving Equipment

The single bell 6-man saturation diving system supports diving to a maximum depth of 1,000 ft

- Centralized moon pool
- Hyperbaric rescue chamber (HRC), self-launching
- Built-in surface diving system
- (2) Built-in hydraulic packages
- Built-in 6 in x 6 in jet pump
- Built-in electric welding machines
- (3) Welding machines / burning packages

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