



# C.T.H.U.L.H.U SSV



## GENERAL

Hull material	Steel
Superstructure material	Steel
Basic functions	R.U.L.E.T wreck oil recovery, Salvage support operations
Classification	ABS Rules for Classification of Steel vessels In Length, ACDI Commercial diving, DP-3 SOLAS 1974

## DIMENSIONS

Length overall	250 ft
Beam overall	75 ft
Depth at side	24 ft
Draught max	18 ft
Gross tonnage	479
Crew	Up to 47 persons

## TANK CAPACITIES

Fuel oil	25638 ft <sup>3</sup>
Potable water	1600 ft <sup>3</sup>
Technical Water	1000 ft <sup>3</sup>
Wastewater (black)	400 ft <sup>3</sup>
Wastewater (grey)	1800 ft <sup>3</sup>
Slop	1000 ft <sup>3</sup>
Recovered oil	70600 ft <sup>3</sup>

## PERFORMANCES

Speed	Up to 15 kn
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## PROPULSION SYSTEM

Main engines	2x GE 12V250MDC
Total Power	Up to 12 eMW
Propulsion	2x Voith-Schneider drives
Bow thruster	2x 1200 ekW electrically driven

## ELECTRICAL EQUIPMENT

Network	24V DC, 120V/400V 60Hz AC
Generator sets	2x 2.5 eMW

## DECK LAY-OUT

Anchor	1x Stockless Anchor
Tow Winch	1x Pacific Marine GH15-04
Crane	1x Hawboldt 30Lt crane

## SHIP SYSTEMS

Ship systems are according to Class	
Oily Water Separator	RWO Veolia OWS-COM type 10
Air conditioning	30.1 kW
Fire extinguishing	DESMI NSL 125-415
Roll reduction	Voith-Schneider drives
Ballast water treatment	Alfa-Laval PureBallast 3

## IMPORTANT SPACES

Bridge deck	Wheelhouse
C Deck	Officer Cabins and conference rooms
B Deck	Cabins
A Deck	Cabins, ROV control room, Dive control room and lifesaving equipment
Main deck	Cabins, sanitary spaces, galley, mess rooms, stores, changing room, ROV hanger, Dive equipment
Tween deck	E.C.R, Machinery spaces
Tank Top	Main Engines, Thruster rooms, Propulsive machinery

## OIL RECOVERY SYSTEMS

Work class ROV	Saab Seaeye Jaguar
Diving system	Max Air 180 twin
LARS	SMP Wet Bell LARS
Decompression system	Pan-American PAH-S1-3200
DP system	Kongsberg K-POS D22
Recovered oil tanks	70600 ft <sup>3</sup> recovered oil capacity

## STANDARD MISSION

The standard anticipated mission of the vessel is the oil extraction of RULET wrecks. For this purpose, the vessel is outfitted with subsea oil extraction system, and dive capability to 150ft. The vessel is also capable of installation of a deck mounted 3 chamber saturation diving system for deeper wrecks. Also, the vessel is capable of towing a barge by the hip or over the stern. The vessel is outfitted with a 30 Lt crane to transfer iso tanks between vessels and aid in any salvage operations.



# D.I.C.B SSV

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## Ian Cosic



- Hometown: Simi Valley, CA
- Freshman: Vigor Alaska
- Sophomore: Eagle Bulk Shipping
- Junior: Metal Shark Croatia
- Experience: Resistance and weight prediction development and homemade sailing catamaran
- Career plans: Pursue postgraduate degree and gain international work experience

## Dillon Esposito-Kelley

- Hometown: Sayville, NY
- Freshman winter work: Newport News
- Sophomore winter work: Eagle Bulk Shipping
- Junior winter work: Shipwright
- Experience: Work with ABS rules, Dive certified
- Career plans: Pursue a masters or doctorate



## Bret Sharman



- Hometown: Fairfax, VA
- Freshman: Austal USA
- Sophomore: Stolt Tankers
- Junior: NSWCCD
- Experience: Work with ship concept design, dive certified
- Career plans: Pursue a postgraduate degree and gain international work experience

## Cross Weeks

- Hometown: Born in Australia, Grew up in Colorado
- Freshman: Vigor Alaska
- Sophomore: Grand River Navigation, Great Lakes
- Junior: Bath Iron Works
- Experience: Ship construction support
- Career plans: Involvement in specialized vessel design

