

DREDGE "VORACIOUS"

Builder: Custom Dredge Works, Topeka, KS

Serial No. 062812161840

Delivered new: 11/2012

USCG Official No. 1241910

Working Conditions:

Minimum depth: 6.0'

Maximum depth: 44.0'

General Information:

Overall length: 102'

Overall width: 23'-6"

Center section: 36' x 11' x 5'

Side pontoons: 90' x 6' x 5'

Hull depth: 5'

Ladder length 55'

Hull thickness: ¼"

Watertight bulkheads: Every 10'

Dredge Pump:

Pearce 16x18x40

Suction: 18"

Discharge: 16"

Impeller: 40" dia

Main Engine and Transmission:

Engine: Caterpillar C-32 ACERT 1125HP

Transmission: TwinDisc marine transmission

Fuel capacity: 2000 gallons shared

1949.0 Hours since new

CA CARB Certified

Auxiliary Engine:

Engine: Caterpillar C-13 ACERT 440HP

Transmission: Funk hydraulic drive

1949.0 Hours since new

CA CARB Certified

Cutterhead Type:

Size: 43" ID

Drive: SAI Hydraulic planetary drive

Speed: 0-20 RPM

HP: 150

Winches:

(2) Swing: Pullmaster H-18

Ladder Hoist: Pullmaster M-25

(2) Spuds: Pullmaster H-18

Spuds:

Diameter: 16"

Length: 75'

Wall thickness: 7/8"

Hydraulic Systems:

a) Winch system:

Tank: 160 gallons shared

Valves: Electro proportional

Pumps: Geartek gear pump

Motors: Pullmaster

Contamination protection: Pre-strainers & 10 micron filters

System relief: 2500 PSI

b) Fresh water pump:

Tank: 160 gallons shared

Pump: Oilgear variable displacement

Motor: Sun-Fab bent axis

Contamination protection: Pre-strainers & 10 micron filters

System relief: 2500 PSI

c) Cutterhead:

160 gallons shared (equipped with high-temp/low level shutdown)

Valves: Electro proportional

Pump: Hydrostatic transmission

Motor: SAI Radial piston

Contamination protection: Pre-strainers & 10 micron filters

System relief: 2500 PSI

Operators Cab & Lighting:

Standard operator cab 6'x8' with air conditioning and heat

Standard light package with 12 and 24 volt

Operators Cab & Lighting (cont)

110v/220v electrical system

Navigation and day shapes

4-400 watt flood lights on cab

2-400 watt flood lights on gantry

In-cab lighting controls

Premium operators seat

Instrumentation and Controls:

(2) Swing winch brake tension controls

Dredgemaster Production Control Valve with upgrades-

Instrumentation for vacuum, discharge pressure, velocity, digging depth, dredge pump RPM, Touch screen display, butterfly production valve with hydraulic cylinder

Additional Upgrades:

Modified gantry for longer spuds

Stainless steel cutter shaft/sleeve

Fuel tank clean-out port

Hard face suction mouth

Flotation tank interiors coated with Fluid-Film

2-ton jib crane for pump service

USACE approved handrail

Solid oak plank and tire fender system

Full documentation