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BRIEF GENERAL SPECIFICATIONS

18-INCH PORTABLE CUTTERHEAD DREDGE

GENERAL

This is a very well maintained, shipyard-built, 16-inch portable cutterhead/suction dredge. It is a "fresh-water" dredge, a contractors' dredge, well designed, well built, and extremely well maintained. A new ladder and cutterhead system were installed in 1996. The machine can be easily dismantled for transport overland, or overseas. Described as "an excellent, high production, low maintenance dredging machine."

MAIN DREDGE PUMP

The main dredge pump is the very popular Thomas Simplicity 16-inch Series P-40.

Suction diameter	18 inch
Discharge diameter	16 inch
Impeller diameter	40 inch

MAIN DIESEL POWER

The dredge pump is powered by a late series Caterpillar model 3512 diesel engine:

Intermittent power rating	1350 bhp @ 1800 rpm
Continuous power rating	850 bhp @ 1200 rpm
Electric start	24 VDC

AUXILIARY DIESEL POWER

Auxiliary power is provided by a Caterpillar model 3306 diesel engine, rated as follows:

Intermittent power rating	300 bhp @ 2200 rpm
Continuous power rating	260 bhp @ 2000 rpm
Electric start	24 VDC

PRINCIPAL DIMENSIONS

	<u>Length</u>	<u>Width</u>
	(ft)	(ft)
Main Hull Center Section	60	13
Hull Side Pontoons – 4 each	41	6.5
Total Assembled	82	26
Dredging Depth	38 ft	

16" SEMI PORTABLE CUTTERHEAD DREDGE: Thomas 18" x 16" dredge pump with 40" impeller powered by a CAT 3512 engine (850 HP @ 1200 RPM). Aux. power provided by a CAT 3306 engine. A new ladder with hydraulic cutter drive was installed in 1996. The dredge has a maximum digging depth of 30' with the current cutter-head configuration. However a sand-suction ladder extension to dig down to a depth of 50' can be built if needed. Hulls are pinned and consist of a 13' x 60' center hull and 4 - 6'6" x 41' side hulls. This is an excellent high production, low maintenance, dredging machine.

Dredge has been exclusively in fresh water.

Dredge superintendent would bid this dredge at an average of 400 yds./hr.

Pump Shell is at 75% of new

Front and back doors are at 75% of new

Impellor is at 50% of new.

Main Engine

1991, Dredge was purchased with 7231 hrs on the main engine.

1994, at 10,000 hours a full top end rebuild was done in 1994 by Caterpillar.

The engine has 14,000 hours at present time. I know of no outstanding mechanical problems on the engine.

Model Cat 3512

Hi Idle 1320 RPM.

Full Load 1200 RPM

Power 850, Code F

Cat Generator Set

1991, Purchased new

**2000, Complete rebuild of the engine and generator
by Caterpillar, FABCO**

The generator has 13377 hours at present.

Engine 3306B

RPM 1800

Generator

KVA 256

KW 205 Prime

COS 0.8

Hertz 60

Phase 3

Wire 12

Voltage 480

Amps 308

Master Clutch Assy.

2001, Clutch was removed and rebuilt Twin Disc
0 hours since rebuild
Twin Disc SP321 P00
Installed 11/98

Gear Reduction

I have no rebuild info on the gear reduction
Flender Bocholt
Type SEN 280 5
Ratio 2.04 : 1
Input Speed 1200 RPM
Out Put Speed 588.24 RPM
Engine HP 600
Gear Rating Up To 1500 HP

Radiator

2001, radiator was pressure tested and cleaned
0 hours since work
Modine Industrial
Part # 1A-9985
Cleaned and inspected 08/01

Ladder Winch Electric Motor Data

Fairbanks Morse Induction Motor
Frame RS 505
Type Q Z K
Duty 24 HRS
SF 1.15
Volts 220/440
Phase 3
Cycle 60

Service Water Pump

Manufactured by Berkeley Pump Co.
Model # B2-1/2 ZRL CW
Serial # G091090
Impeller Dia. 9"
Pump Capacity

GPM 300
100 PSI @ 236' Head

Search Light

Carlsile Finch
19"

Ser. # 16244 10-Jun-91
1000 Watt