DAMEN ELECTRIC CUTTER SUCTION DREDGER 500
"AMORIS"

GENERAL
YARD NO. B09.0370
TYPE E-CSD450
DELIVERY DATE January 2011
BASIC FUNCTIONS Maintenance dredging

DREDGING FEATURES
MAXIMUM CUTTER DEPTH 18 m
SWING WIDTH AT -18M 38 m
UNLOADING BARGES with unloading arm

DREDGE INSTALLATION
DREDGE PUMP TYPE (2x) BP45-1100
DIAM. SUCTION/DISCHARGE PIPE 450 mm
CUTTER TYPE 5-1450 RU (with changeable chisels)
CUTTER POWER 110 kW

ENGINE INSTALLATION
ELECTRIC MOTOR DREDGE PUMP EN HN-400LY4 (2x)
CONTINUOUS POWER RATING 600 kW @ 1,485 rpm
HYDRAULIC INSTALLATION driving cutter, winches, spud carriages and ladder
STEP DOWN TRAFO Resibloc 15,75 kVac
ELECTRICAL INSTALLATION 400 Vac, 230 Vac and 24 Vdc

PRINCIPAL DIMENSIONS
LENGTH O.A. INCL. LADDER 64.40 m
LENGTH OVER PONTOONS 34.00 m
BREADTH 9.50 m
DEPTH 3.30 m
DRAUGHT 1.4 m
TOTAL WEIGHT 435 ton

TANK CAPACITIES
FUEL OIL APPROX. 2 m³
BALLAST WATER (FORE AND AFT) 47 m³
WASTE WATER 2 m³
FRESH WATER 2 m³

DECK MACHINERY
LADDER HOISTING CYLINDERS (2x)
CUTTER LIFT CYLINDERS (2x)
SWING CYLINDERS (2x)
SPUDS HOISTING WINCHES (4x)
BARGE MANOEUVRING WINCHES (2x)
SPUD CARRIAGE CYLINDERS (2x)
CRANE Hydraulic HLRM 35-4S

CUTTER SUCTION DREDGER 500

NEW MACHINERY

ENHANCED PERFORMANCE

STATIONARY PONTOON WITH SWINGING LADDER (NO SIDE WIRE NECESSARY)
4 SPUDS WITH 2 SPUD CARRIAGES FOR CONTINUOUS DREDGING
HEAVY DUTY ROBUST CONSTRUCTION
BARGE UNLOADING SYSTEM WITH UNLOADING ARM AND JET WATER MONITOR
BOLLARDS FORE AND AFT AT BOTH SIDES OF THE DREDGER
SEPARATE ENGINE ROOM HATCHES FOR OPTIMAL MAINTENANCE
POWER THROUGH HIGH VOLTAGE WALL CABLE
POWER BACK UP SYSTEM THROUGH DIESEL ENGINE
ACCOMMODATION WITH KITCHEN AND TOILET
SPACIOUS ERGONOMIC DESIGNED CONTROL CABIN AND ENGINE ROOM
OPERATORS CABIN WITH AIR CONDITIONING
MARINE COATING SYSTEM AND CATHODIC PROTECTION
SEARCH LIGHT
MF/HF AND VHF RADIO SYSTEMS

OWNER
SeReAnt (temporary trade association formed by Jan De Nul and Dredging International (DEME))
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