DREDGE BROKERS

Used Dredge Buying Checklist

42-point pre-purchase review | Printable PDF with fillable checkboxes | dredgebrokers.com

Listing #: _____ Inspection date: _____

Manufacturer / model: _____ Location: _____

Buyer / inspector: _____ Seller: _____

Mark each item reviewed. A checked box records a review; it does not by itself mean the item passed inspection. Use additional notes or a specialist report to document defects and unresolved questions.

01 Project Compatibility

- ☐ Confirm that the dredge suits the sediment: sand, silt, clay, gravel, rock, or debris.
- ☐ Verify practical dredging depth, operating draft, and site access restrictions.
- ☐ Compare required production rates with documented operating results, not advertised maximums alone.
- ☐ Verify discharge distance, pipe diameter, elevation changes, and booster pump requirements.
- ☐ Confirm how dredged material will be transported, placed, or dewatered at the project site.
- ☐ Check applicable environmental, permitting, and operating requirements.

02 Equipment History & Documentation

- ☐ Confirm manufacturer, model, year, serial numbers, and major component identification plates.
- ☐ Record engine, generator, pump, and other major-equipment operating hours.
- ☐ Request maintenance records, service logs, and documentation for major repairs or rebuilds.
- ☐ Obtain operating manuals, engineering drawings, electrical diagrams, and hydraulic schematics where available.
- ☐ Ask about prior applications, operating environments, accidents, and known failures.
- ☐ Confirm the reason for sale, time out of service, and storage or preservation practices.

03 Hull, Structure & Machinery

- ☐ Inspect pontoons or hull plating, welds, compartments, corrosion, and evidence of leaks.
- ☐ Inspect the dredge ladder, trunnions, pivot points, pins, and structural supports.
- ☐ Examine spuds, spud wells, anchors, winches, wire rope, sheaves, and brakes.
- ☐ Check engines, generators, gearboxes, couplings, bearings, and visible fluid leaks.
- ☐ Inspect hydraulic hoses, cylinders, valves, electrical wiring, and controls.
- ☐ Check emergency stops, alarms, guarding, and other applicable safety systems.

04 Dredging Systems & Wear Components

- [ ] For hydraulic dredges, inspect pump impellers, liners, volutes, seals, suction lines, and discharge connections.
- [ ] Inspect cutterhead teeth, adapters, cutting edges, cutter drives, and gearboxes where installed.
- [ ] Review pump curves, engine power, pipeline compatibility, and operating data.
- [ ] For mechanical dredges, inspect buckets, grabs, excavators, cranes, booms, pins, and hydraulic attachments.
- [ ] Verify winch specifications, braking/holding capacity, and positioning-system condition.
- [ ] Identify obsolete components and verify the availability and cost of replacement parts.

05 Inspection & Operational Testing

- [ ] Arrange an independent marine survey or specialist mechanical inspection suited to the dredge.
- [ ] Request an engine and generator cold-start demonstration when practical and permitted.
- [ ] Observe pumps, hydraulics, controls, winches, ladders, and excavation systems under suitable operating loads.
- [ ] Note unusual vibration, smoke, leaks, high temperatures, alarms, and abnormal noises.
- [ ] Compare demonstrated pumping or production results with seller claims when test conditions allow.
- [ ] Record every system that could not be tested and the resulting repair or replacement uncertainty.

06 Included Equipment & Transportation

- [ ] Get a written inventory of everything included in the sale and anything excluded.
- [ ] Verify quantities and condition of HDPE pipe, hoses, floats, fittings, and booster pumps.
- [ ] Identify included spare impellers, liners, cutter teeth, hydraulic parts, and specialized tools.
- [ ] Confirm dimensions, weights, transport restrictions, dismantling, and loading requirements.
- [ ] Estimate shipping, towing, permits, cranes, reassembly, and site-access costs.
- [ ] Budget for installation, testing, commissioning, and initial startup.

07 Ownership, Terms & Total Cost

- [ ] Verify seller authority, ownership documents, applicable vessel registration, and any liens or encumbrances.
- [ ] Review available class, survey, and inspection certificates if they apply to the equipment.
- [ ] Agree in writing on inspection access, testing conditions, and any purchase contingencies.
- [ ] Document known defects, included items, exclusions, representations, and agreed sale terms.
- [ ] Estimate repairs, transport, applicable taxes or import costs, insurance, and commissioning.
- [ ] Calculate the total cost to put the dredge into productive service, not just the asking price.

DREDGE BROKERS

Inspection Notes & Purchase Decision

Keep the inspection report, seller documentation, and written sale terms together with this checklist.

Critical findings and untested systems

Repairs, missing items, and replacement parts

Transport, installation, and commissioning estimates

Before authorizing payment

□ Obtain a written equipment inventory and agreed purchase contract.
□ Record outstanding inspection findings and estimated repair costs.
□ Confirm ownership and any applicable lien release, registration, tax, and transfer requirements.
□ Agree on inspection, escrow, transport, and funds-release terms appropriate to the transaction.

Decision: □ Proceed □ Specialist review required □ Hold purchase

Important: This is an original Dredge Brokers buyer resource informed by dredging equipment guidance from USACE and IADC. It is not a USACE or IADC inspection form and does not replace a qualified independent inspection, technical evaluation, or legal advice. Buyers should independently verify seller-supplied information.

Technical references: USACE, EM 1110-2-5025 (2015); IADC, "Choice of Type of Dredger".