Kahlenberg Industries, Inc.
Propeller Selection Analysis Form

Name _____

Company _____

Address _____

_____

Tel _____ Fax _____

E-mail _____

INSTRUCTIONS

Enter the information below as completely as possible. Where options are given, check those that apply.

1a. OBJECTIVES (NEW BUILD)

Primary goal
- ☐ Top speed _____
- ☐ Towpull (thrust) _____

Tasks
- ☐ Recommend a new propeller:
  _____
- ☐ Recommend a gear ratio from the following:
  _____ (available ratios)

1b. OBJECTIVES (REPOWER/REPROP)

Primary goal
- ☐ Increase speed _____
- ☐ Towpull (thrust) _____
- ☐ Improved RPM
- ☐ Less cavitation, noise or vibration

Tasks
- ☐ Check if a propeller repair or repitch is possible
- ☐ Recommend a new propeller:
  _____
- ☐ Recommend a gear ratio from the following:
  _____ (available ratios)

Describe symptoms and additional info:

_____
_____
_____
_____
_____
_____
_____

2. PRINCIPAL VESSEL CONDITION

All calculations will be based on this data, so this should reflect the principal operating condition of the vessel.

Vessel make _____

Hull type
- ☐ Displacement ☐ Barge
- ☐ Semi-displacement ☐ Sailboat
- ☐ Planing ☐ Catamaran

Service
- ☐ Passenger/Pleasure ☐ Towing
- ☐ Work/Commercial ☐ Bollard

Usage
- ☐ Offshore (ocean) ☐ Lakes/bays

Length _____ ☐ Waterline ☐ Overall
Weight _____ ☐ Light ☐ Operational
Number of propellers
- ☐ Single ☐ Twin

3. STERN GEOMETRY

Maximum propeller diameter _____
Propeller tip clearance to hull _____
Distance of prop centerline below water surface _____

4. ENGINE/GEAR

Engine model _____
Rated power _____ Rated RPM _____
If installed: Gear model _____ Ratio _____

5. PRIOR PERFORMANCE

Information about prior trial performance of the vessel (or one exactly like it) will improve the accuracy and reliability of the analysis. Define this data as accurately as possible - do not guess. This data should be for typical operation at the vessel condition described above.

Engine model _____
Rated power _____ Rated RPM _____
Engine RPM at trial speed _____

Propeller model _____
Diameter _____ Pitch _____ Cup _____
Blades _____ Propeller tip clearance to hull _____
Material
- ☐ Mn Bronze ☐ Stainless
- ☐ NiBrAl ☐ Other _____

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