

# SERVICE CLASSIFICATION DEFINITIONS

## CONTINUOUS DUTY

Often called "Work Boat Duty," these marine transmission applications are expected to operate continuously at full engine governed speed. The propulsion engine power setting must be known and must be within the marine transmission's allowable input rating for continuous day long or around the clock service.

Most displacement hull vessels are powered for Continuous Duty service. However, the actual engine (and marine transmission) power loading depends on:

- a. The propeller used
- b. The vessel's work assignment
- c. The captain's choice of throttle setting during continuous service

Twin Disc recommends that all displacement and semi-displacement hull commercial applications be classed as Continuous Duty usage of the marine transmission.

### Examples:

Fishing trawlers  
Purse seiners  
Lobster boats and crab boats  
Tugs  
Tow boats  
Buoy tenders  
Offshore supply boats  
Ferries  
Research vessels  
Ocean freighters

## INTERMEDIATE DUTY

Pleasure or Commercial usage of planing or semi-displacement hull craft can qualify for Intermediate Duty Service Classification if full throttle operation will average only a few hours per day with major portion of usage at partial throttle and total annual usage will be 2000 hours or less.

### Examples:

Long Range Pleasure Cruisers  
Sportfish Charter Boats  
Party Fishing Boats  
Crew Boats  
Harbor and Coastal Patrol Boats  
Search and Rescue Boats  
Fire Boats

## PLEASURE CRAFT

Maximum power capacity is intended only for personal use, planing hull pleasure craft where full engine throttle operation will be less than 5% of total time with balance of time at 87% of full throttle engine rpm or less. Marine transmissions used in long-range pleasure cruisers, sportfish charters or any commercial service should not be selected according to Pleasure Craft Service Classification.

## IMPORTANT NOTICE

Disregarding propulsion system torsional compatibility could cause damage to components in the drive train resulting in loss of mobility. At minimum, system incompatibility could result in gear clatter at low speeds.

The responsibility for ensuring that the torsional compatibility of the propulsion system is satisfactory rests with the assembler of the drive and driven equipment.

Torsional vibration analysis can be made by the engine builder, marine survey societies, independent consultants and others. Twin Disc is prepared to assist in finding solutions to potential torsional problems that relate to the marine transmission.



TWIN DISC, INCORPORATED  
Racine, Wisconsin 54303, U.S.A.  
England South Africa Singapore  
Hong Kong Australia  
TWIN DISC INTERNATIONAL S.A.  
1400 Nivelles, Belgium

**IMPORTANT NOTICE:** Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in this catalog. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

nance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.