

Oil Lubricated Propeller Shafts Kind 1

Amended Rules and Guidance

Rules for the Survey and Construction of Steel Ships Parts A and D
Rules for High Speed Craft
Rules for the Survey and Construction of Passenger Ships
Guidance for the Survey and Construction of Steel Ships Parts B and D
Guidance for High Speed Craft
Guidance for the Survey and Construction of Inland Waterway Ships

Reason for Amendment

The ClassNK Rules defines those oil-lubricated propeller shafts which sufficiently take into account corrosion by water as “oil-lubricated propeller shafts of Kind 1”. Among such shafts, propeller shafts of Kind 1C have a reputation for being highly reliable because they employ various means to not only prevent corrosion damage to stern tube bearings, but also to more easily facilitate general maintenance and management.

In recent years, there had been a growing demand for a way to allow the easy identification of ships fitted with such highly reliable propeller shafts. Therefore, relevant provisions of the Rules were amended to allow the affixation of the notation of “1C” to the classification characters of ships fitted with propeller shafts Kind 1C.

In addition to the above, requirements related to the specifications of propeller shafts Kind 1C were transferred from Part D of the Guidance for the Survey and Construction of Steel Ships to Part D of the Rules for the Survey and Construction of Steel Ships, and relevant requirements were amended to clarify the criteria for assessing periodic lubricating oil analysis when determining whether to postpone the Ordinary Surveys of propeller shafts.

Outline of Amendment

The main details of the amendment are as follows:

- (1) Specified that “1C” is to be affixed to the classification characters of ships fitted with propeller shafts Kind 1C.
- (2) Transferred requirements for the specification of propeller shafts Kind 1C from the Part D of the Guidance for the Survey and Construction of Steel Ships to Part D of the Rules for the Survey and Construction of Steel Ships.
- (3) Amended requirements related to the periodical lubricating oil analysis required to be carried out in order to postpone the Ordinary Surveys of oil-lubricated propeller shafts Kind 1 as follows.
 - (a) Specified that the surveyor may require a re-performing of the oil analysis in cases where the test results of the analysis do not appear to be valid.
 - (b) Specified that in the case of environmentally acceptable lubricants (EAL), observation of any trends (such as TAN (total acid number), viscosity and change in colour, etc.) is allowed instead of confirmation of IR oxidation.

Amended Requirements

Rules for the Survey and Construction of Steel Ships
Part A: 1.2.1, 1.2.4
Part D: 6.1.2, 6.2.11, 6.3.2

Rules for High Speed Craft

Part 1: 1.2.1, 1.2.4

Part 9: 5.1.2

Rules for the Survey and Construction of Passenger Ships

Part 1: 1.2.1, 1.2.4

Guidance for the Survey and Construction of Steel Ships

Part B: B8.1.2

Part D: D6.1.2, D6.2.11

Guidance for High Speed Craft

Part 2: 3.9.4

Guidance for the Survey and Construction of Inland Waterway Ships

Part 2: 8.1.2