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ICS 47.020.20
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CB

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

CB/T 4529-2023

Calculation method of whirling vibration of ship propulsion shafting

船舶推进轴系回旋振动计算方法

(English Translation)

Issued on: April 21, 2023 **Implemented on: November 1, 2023**

Issued by: Ministry of Industry and Information Technology of the People's Republic of China

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1 Foreword

CB/T 4529-2023 was issued by Ministry of Industry and Information Technology of the People's Republic of China on 21 April 2023 and has been in force since 1 November 2023.

The CB/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the calculation method for the cycloidal vibration of diesel engine direct drive, gear drive propulsion shafting, and high-speed ship lifting shafting. It mainly includes the establishment of a coordinate system, factors affecting the natural frequency of shafting whirlpool vibration, natural frequency calculation, and whirlpool vibration calculation sheet. and the rotational speed range that should be avoided by whirling vibration. This standard is applicable to the theoretical calculation of cycloidal vibration of

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ship propulsion shafting systems.

CB/T 4529-2023 falls under ICS 47.020.20, in the field of shipbuilding and marine structures.

This catalogue holds 52 other CB/T standards in that field.

In this catalogue, CB/T standards carry edition years from 1991 to 2025.

3 About this standard

Sector: Shipping Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology of the People's Republic of China

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

GB/T 37452-2019 - Wire rope selection methods for offshore cranes

CB/T 4197-2011 - The technical specifications of turbochargers used for marine diesel engines

GB/T 11865-2008 - Marine centrifugal fans

CB/T 4530-2023 - Calculation of Longitudinal Vibration of Marine Diesel Engine Shafting

CB/T 3892-2019 - Chinese standard

CB/T 4458-2016 - Airborne volatile organic compounds online gas chromatograph

5 Classification and status

International classification (ICS): 47.020.20

Chinese Standard Classification (CCS): U 48

Prefix CB/T: recommended standard.

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