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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 42601.3-2023

**Petroleum, petrochemical and natural gas industries -
Lubrication, shaft-sealing and control-oil systems and
auxiliaries - Part 3: General-purpose oil systems**

石油、石油化工和天然气工业 润滑、轴密封和控制油系统及辅助设备 第3部分：
一般用途的油系统

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Standardization Administration of the PRC**

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Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting: This document is the first part of GB/T 42601 "Lubrication, shaft sealing and oil control systems and auxiliary equipment in petroleum, heavy chemical and natural gas industries" 3 parts: GB/T 42601 has issued the following parts:

--- Part 1: General requirements;

--- Part 3: Oil systems for general purposes: This document is equivalent to ISO 10438-3:2007 "Petroleum, heavy chemical and natural gas industries Lubrication, shaft sealing and control oil systems and auxiliary Auxiliary equipment - Part 3: Oil systems for general purposes": Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed by China Machinery Industry Federation: This document is under the jurisdiction of the National Fan Standardization Technical Committee (SAC/TC187): This document is drafted by: Shenyang Blower Group Co., Ltd., Xi'an Shaangu Power Co., Ltd., Shenyang Blower Group Co., Ltd. Co., Ltd: Shenyang General Equipment Branch, Shenyang Blower Group Ventilation Equipment Technology Co., Ltd., Hangzhou Steam Turbine Co., Ltd., Changzhou Huali Hydraulic Lubrication Equipment Co., Ltd., Jiangsu Guide Lubrication Hydraulic Technology Co., Ltd., Shanghai Lian Lubrication Equipment Manufacturing Co., Ltd: Division, Shenyang Blower Group Gear Compressor Co., Ltd., Shenyang Blower Electrical Equipment Import and Export Co., Ltd., Anshan Gangfeng Fan Co., Ltd: Company, Shenyang Blower Research Institute (Co., Ltd.): The main drafters of this document: Yang Shuhua, Hou Yousong, Shang Xiaoxi, Zhai Ruihu, Chen Kexuan, Yu Wenyan, Wu Wenhua, Wang Houfeng, Liu Xiaoming, Dong Xin, Yan Longyin, Yang Xiongmin, Zhou Genbiao, Hao Yuming, Wu Ziting:

Lubrication, shaft sealing and oil control systems and auxiliary equipment are turbocompressors, turboblowers, large industrial fans, speed changers, pumps and The most important supporting equipment for driving machines and other equipment: GB/T 42601 aims to establish the relevant regulations for the design, manufacture and procurement of lubrication, shaft seals, oil control systems and auxiliary equipment: composed of parts:

--- Part 1: General requirements: The purpose is to apply to lubricating oil systems, oil lubricated shaft seal systems, General requirements for dry gas lubricated end face shaft seal systems and control oil systems, while limiting the general application of lubricating oil systems:

--- Part 2: Oil systems for special purposes: The purpose is to establish requirements for oil systems for special applications: These oil systems provide Lubricating and sealing oils for equipment such as compressors, gears, pumps and drives:

--- Part 3: Oil systems for general purposes: The purpose of this document is to establish requirements for general purpose oil systems which are capable of providing Lubricating oil instead of sealing oil, suitable for equipment such as compressors, transmissions, pumps and drives:

--- Part 4: Self-adjusting gas seal support system: The purpose is to establish a self-adjusting gas seal (dry gas seal) support It is applicable to equipment such as compressors, speed changers, pumps and drivers: As part 3 of GB/T 42601, this document is equivalent to adopting ISO 10438-3:2007, which will help my country's fan industry and related To better understand and implement the relevant technical requirements in the standard, improve the lubrication, shaft sealing and control oil system and auxiliary equipment of the fan industry prepared technical level: This document is a code that fan companies must abide by in the design, manufacture and sales of main engine products and supporting products, and it can improve my country's Lubrication, shaft sealing, oil control system and auxiliary equipment product quality, and can compete with similar international enterprises under the same standard conditions: A (-) before a clause or sub-clause indicates that it is up to the buyer to decide or to provide further information, which needs to be included in the data sheet Point it out, or clarify it in the quotation or order: Petroleum, heavy chemical and natural gas industries Lubrication, shaft sealing and control oil systems and auxiliary equipment Part 3: Oil systems for general purposes

1 Scope

GB/T 42601.3-2023 is Part 3 of the Chinese series on lubrication, shaft sealing and control oil systems for the petroleum, petrochemical and gas industries, and covers general purpose oil systems. General purpose means the machinery that is not the critical unspared train: the pumps, fans and smaller drives that a plant has dozens of, where the redundancy demanded of a special purpose system cannot be justified but the equipment

still has to run unattended for years. The standard sets the basic design and the general requirements, then the components - the baseplate, the reservoir, the pumps and their drivers, the coolers, the filters, the transfer valve and the shutdown lube oil tank - the piping covering oil and instrument piping, and the instrumentation, inspection, testing and preparation for shipment. It took effect on 1 December 2023.

This document specifies the requirements for oil systems for general purposes, for use with ISO 10438-1: These oil systems provide lubricating oil, while Not seal oil: This document applies to equipment such as compressors, gearboxes, pumps and drivers: NOTE: The term "general purpose" is defined in ISO 10438-1:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB/T 42601.1-2023 Petroleum, heavy chemical and natural gas industries Lubrication, shaft sealing and oil control systems and auxiliary equipment No: