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

GB/T 25732-2010

Grain and oil machinery - Hydraulic oil presses

粮油机械 液压榨油机

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Foreword

Appendix A of this standard is a normative appendix, Appendix B, Appendix C is informative appendix. The standard proposed by the National Food Authority. This standard by the National Standardization Technical Committee OILS. This standard was drafted. National Food Reserve Wuhan Science Research Institute, Xiangtan in Hunan Province grain Machinery Co., Ltd. The main drafters of this standard. Cao Guofeng, Gong Ren, Zhu Nan Fang. Grain and oil machinery hydraulic press

1 Scope

China's national standard for hydraulic oil presses. It specifies the types and basic parameters, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of hydraulic presses used to express oil from oilseeds. The hydraulic press is the oldest mechanical method of extracting oil and it survives alongside the screw press and solvent extraction because it does something neither does. It presses a batch slowly at very high pressure, without the shear and the frictional heating of a screw, and it can be run cold. That matters for the oils whose value is in what heat destroys: sesame, walnut, camellia, perilla and the other speciality oils are cold-pressed for the flavour and the minor components that a hot process degrades, and the residual cake retains protein quality that heat would denature. The press cannot compete on yield - it leaves considerably more oil in the cake than a screw press or solvent extraction, and it is a batch machine with a slow cycle - so it is used where the product commands the premium that pays for that. What the standard specifies follows from the mechanics. The pressing pressure and the hydraulic system that produces it, the cage or plate arrangement that holds the charge while letting the oil drain, and the drainage itself, which determines how much oil actually leaves. The pressing cycle and the rate of pressure rise, since applying pressure too fast seals the outer layer and traps the oil inside. And the safety, because a hydraulic press stores a great deal of energy in a compressed cake and a cage that fails releases it. Issued on 23 December 2010 and in force since 1 March 2011.

This standard specifies the relevant terms and definitions hydraulic press, working principle, classification, model and basic parameters, technical requirements, test side Method,

inspection rules, marking, packaging, transportation and storage requirements. This standard applies to the total pressure of not more than 20t batch hydraulic press.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191 Packaging - Pictorial signs GB/T 1532-2008 peanuts

GB/T 3766 Hydraulic System General technical conditions (eqv ISO 4413.1998)

GB/T 3768 Determination of sound pressure of sound power levels of noise sources using an enveloping surface reflectance measuring surface Simple Method

GB 5226.1 mechanical and electrical safety of machinery - Electrical equipment - Part 1. General requirements

GB/T 5512 Inspection of grain and grain Determination of fat content

GB/T 5529 Inspection of vegetable oils Determination of impurities GB/T 13306 signs

GB/T 24854 grain and oil machinery products packaging technology

GB/T 24855 General technical requirements grain machinery assembly

GB/T 24856 Oil Machinery casting general technical conditions

GB/T 24857 Oil Machinery plates, steel plate member General technical conditions

GB/T 25218 Grain and Oil Painting machinery products general technical conditions GB Z158 workplace occupational hazard warning labels LS/T 3501.2 grain and oil processing machinery - General requirements machining technology requirements LS/T 3501.6 grain and oil processing machinery - General requirements weldment

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Hydraulic press hydraulicpress Use Pascal's law, so that the oil in the cake circle squeezing the oil press equipment removed.

3.2 Working hours before the first failure workinghourstofirstfault Press start to press a normal working parts (wearing parts except normal wear and tear) cumulative time fault occurs, the unit is Hours (h).

3.3 Failure breakdown In addition to random press only tool to eliminate the parts do not

change in a short time so that the device can not operate normally the case.

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