

**DIN 51524-2****DIN**

ICS 75.120

Supersedes  
DIN 51524-2:1985-06**Pressure fluids –  
Hydraulic oils –  
Part 2: HLP hydraulic oils; Minimum requirements**Druckflüssigkeiten –  
Hydrauliköle –  
Teil 2: Hydrauliköle HLP; Mindestanforderungen

Document comprises 8 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original should be consulted as the authoritative text.

## Foreword

This standard has been prepared by Technical Committee NMP 651 *Anforderungen an Schmieröle und sonstige Öle* of the *Fachausschuss Mineralöl- und Brennstoffnormung* of the *Normenausschuss Materialprüfung* (Materials Testing Standards Committee).

DIN 51524 comprises the following parts:

- Part 1: HL hydraulic oils; Minimum requirements
- Part 2: HLP hydraulic oils; Minimum requirements
- Part 3: HVLP hydraulic oils; Minimum requirements

To allow a better selection of oils, maximum values for viscosity at 0 °C or –20 °C for start-up operations in winter have been specified instead of the viscosity index, and minimum values for viscosity at 100 °C have been specified for the maximum loading of hydraulic oils in summer.\*)

## Amendments

This standard differs from DIN 51524-2:1985-06 as follows:

- a) ISO viscosity grades ISO VG 15 and ISO VG 150 are now included.
- b) A cleanliness class is now specified.
- c) The normative references have been updated.
- d) The standard has been editorially revised.

## Previous editions

DIN 51525: 1973-03

DIN 51524-2: 1985-06

## 1 Scope

This standard applies to the hydraulic oils listed in table 1, for use predominantly in hydrostatic drive systems in which high thermal stresses occur, where corrosion is expected, for example as a result of the ingress of water, and/or where oils containing anti-wear additives for mixed friction applications are required in pumps or hydraulic motors due to their design or operating conditions.

HLP hydraulic oils may also be used in hydrodynamic drive systems, provided they meet the requirements of these systems.

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\*) Translator's note: This English translation incorporates in table 2 the corrections published in DIN 51524-2 Corrigendum 1:2006-09.