
**Hydraulic fluid power — Determination of
the particulate contamination level of a
liquid sample by automatic particle
counting using the light-extinction
principle**

*Transmissions hydrauliques — Détermination du niveau de pollution
particulaire d'un échantillon liquide par comptage automatique des
particules par absorption de lumière*



Reference number
ISO 11500:2008(E)

© ISO 2008

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	2
4 Materials and equipment.....	2
5 Diluent liquid	3
6 Pre-test requirements and procedures.....	3
6.1 Precautions	3
6.2 Glassware cleaning procedure.....	4
6.3 APC calibration procedure	4
6.4 APC operation	4
6.5 Sample inspection and preparation before counting	5
6.6 Determination of need for sample dilution.....	7
7 Procedure for determining the particulate contamination level by automatic counting	7
7.1 Outline.....	7
7.2 Sample dilution	9
7.3 Analysis procedure.....	11
7.4 Analysis of different liquids.....	12
8 Test report	12
9 Identification statement (reference to this International Standard)	13
Annex A (normative) Procedure for performing a statistical check of an automatic particle counter	14
Annex B (informative) Acceptable diluents	15
Annex C (informative) Method for pre-cleaning diluent and method for incorporating additives into the diluent to eliminate the influence of static electricity on particle counts.....	16
Annex D (informative) Form for reporting particulate contamination level in a hydraulic liquid sample as determined by automatic counting	18
Annex E (informative) Data from round robin test program conducted to verify the procedure specified in ISO 11500	19
Bibliography	29