

ISO 28521:2009-06 (E)

Ships and marine technology - Hydraulic oil systems - Guidance for grades of cleanliness and flushing

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Symbols	2
4	Recommended pipe cleaning levels	2
4.1	Pipe cleaning levels during/after prefabrication	2
4.2	Surface treatment	3
4.3	Storage of prefabricated pipes and fittings	3
5	Level of cleanliness	3
6	Assembly and installation of pipe system	3
7	Blow-through/pull-through of the system	3
8	Description of coupling	4
8.1	Design phase	4
8.2	Other considerations	4
9	Leakage test	4
10	Filling with oil	5
11	Shock testing/pressure testing	5
12	Flushing of yard-installed pipe system	5
12.1	Connection	5
12.2	Special pump units	5
12.3	Flushing filters	5
12.4	Flushing oil	9
12.5	Flushing times	11
12.6	Methods for checking the cleanliness level	12
12.7	Leakage testing	13
13	Start-up of system	13
Annex A (informative) Example of particle counting		14
Bibliography		15