

ISO 22098:2020-05 (E)

Ships and marine technology - Full-scale test method for propeller cavitation observation and hull pressure measurement

| Contents | Page |
|---|-------------|
| Foreword | iv |
| Introduction | v |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 1 |
| 4 Instrumentation and implementation | 2 |
| 4.1 General | 2 |
| 4.2 Cavitation observation | 2 |
| 4.2.1 General | 2 |
| 4.2.2 Cavitation observation method | 2 |
| 4.2.3 Observation window | 3 |
| 4.2.4 High-speed camera | 5 |
| 4.3 Hull pressure measurement | 5 |
| 4.3.1 General | 5 |
| 4.3.2 Pressure transducer | 5 |
| 4.3.3 Pulse controller | 7 |
| 4.3.4 Data processing system | 7 |
| 5 Construction requirements | 7 |
| 5.1 General application | 7 |
| 5.2 Safety clearance and water-tightness | 8 |
| 6 Test and measurement procedure | 8 |
| 7 Reporting | 9 |
| Annex A (informative) Example of configuration of cavitation observation | 10 |
| Annex B (informative) Analysis of fluctuating pressure signals | 11 |
| Bibliography | 12 |