

10592:2022 Remote Hydraulic Steering Systems

**CERTIFICATION APPLICATION**  
**Remote Hydraulic Steering Systems**  
**Ref.: EN ISO 10592:2022**

**FOR IMCI / IMCI (UK) USE ONLY**  
Certificate No.:

Manufacturer:	
Address:	
City:	
Country:	
VAT #:	
Signatory, Name:	
Signatory, Title:	
Phone:	
Email:	
WWW:	
Model Name:	
Type of component (e.g. helm, hydraulic hose, hydraulic cylinder etc.)	
Model Year:	
Head of Engineering:	

**This application is valid for:**

Directive 2013/53/EU (RCD II) related to CE marking for EU.	[Yes, No]	Indicate
Recreational Craft Regulation (RCR) related to UKCA marking for United Kingdom	[Yes, No]	

Selected test data	Clause	Requirements	Unit	As tested
1 Type of steering system: outboard engine [OB], inboard engine [IB]				
2 Largest diameter of steering wheel as tested			mm	
3 Largest dish of steering wheel as tested			mm	
4 Threaded fasteners in question are provided with locking means	4.2	[ Yes/NA ?]		
5 Threaded fasteners in question are referenced by instructions and comply for assembly	4.3	[ Yes/NA ?]		
6 - described locking device can be determined by visual inspection, or	4.3	[ Yes/NA ?]		
7 - integral locking means provided	4.3	[ Yes/NA ?]		
8 Loose lock washers, distorted thread nuts or separately applied adhesive is not used.	4.4	[ Yes/NA ?]		
9 If plain threaded jam nuts are used to permit adjustments the design is compliant	4.5	[ Yes/NA ?]		
10 No connection fittings, including quick-disconnect fittings rely only upon a spring or springs to maintain the connection.	4.6	[ Yes/NA ?]		
11 The steering system is capable of operating throughout a temperature of -20°C to +80°C	4.7	[ Yes/NA ?]		
12 The storage temperature range of -40°C to +85°C is met	4.8	[ Yes/NA ?]		
13 All components are marked and selected for the foreseen proof pressure.	4.9	[ Yes ?]		
14 Component burst pressure not less than foreseen system design peak pressure or two times the component proof pressure, whichever is greater.	4.10	[ Yes ?]		
15 If hydraulic lines with quick connect: two stage integral locking means for connection integrity	4.11	[ Yes/NA ?]		
16 System system comply with relieve event test	4.12	[ Yes/NA ?]		
17 System system comply with steering response test	4.13	[ Yes/NA ?]		
18 System system comply with re-grip test	4.14	[ Yes/NA ?]		
19 Component interfaces and hardware are capable to withstand forces at system design pressure	4.15	[ Yes/NA ?]		
20 Materials used are galvanic compatible or plate to minimize corrosion	5.1	[ Yes ?]		
21 If copper based alloys, a galvanic barrier is provided or otherwise protected	5.2	[ Yes/NA ?]		
22 If materials are foreseen for below waterline, cathodic protection or isolation is foreseen	5.3	[ Yes/NA ?]		
23 Material are resistant to deterioration by the specified hydraulic fluid or other compounds	5.4	[ Yes/NA ?]		
24 If plastics and elastomers can be exposed to sunlight, they resist UV degradation	5.5	[ Yes/NA ?]		
25 Components withstand loads in either direction resulting from the system design pressure	9.3.1	[ Yes ?]		
26 Components withstand static pressure at upper and lower limits of the temperature range for their location at system design peak pressure	9.3.2	[ Yes ?]		
27 Helm assembly incur no loss of operation if equipped with steering wheel (largest dish and diameter) for:	9.3.3			
28 - Axial load test, 670 N push-pull as described	9.3.3.1	[ Yes/NA ?]		
29 - Tangential load test, 450 N in each direction as described	9.3.3.2	[ Yes/NA ?]		
30 - Single impact energy of at least 160 Nm as described without deformation that would cause loss of minimum retained system performance	9.3.3.3	[ Yes ?]		
31 - Single impact energy of at least 270 Nm as described without separation of the helm or separation of the wheel from the helm	9.3.3.4	[ Yes ?]		



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32 Connection rod(s) and end fittings for multiple engine application withstand 8900 N in tension and compression as described without failure.	9.3.4	[ Yes/NA ?]		
33 Cyclic load test with 50.000 cycles conducted as described and passed	9.3.5	[ Yes ?]		
34 An owner's manual information is provided	10	[ Yes ?]		
35 An installation manual is provided	9.3	[ Yes ?]		
36 Specify type of laboratory: in-house or/and external ?				
37 Calibration report submitted for the following and/or other measuring instruments used, if applicable:				
38 Temperature measuring device				
39 Force gauge				
40 Protractor gauge				
41 Sliding gauge				
42 Other measurement device(s)				
43 Name of test laboratory				
44 Reference date and number of test report				
45 Submit to IMCI				
46 - Test report		[ Yes ?]		
47 - Drawings		[ Yes ?]		
48 - Information for owner's and/or installation manual		[ Yes ?]		
49 Comments:				

As the manufacturer or his authorised representative, I declare under our sole responsibility that the above product(s) to which this declaration relates is in conformity with ISO 8848. This application has not been lodged with any other notified body and/or conformity assessment body.

Date (yymmdd) and Signature: \_\_\_\_\_

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**This page is only for IMCI / IMCI (UK) office use**

**IMCI / IMCI (UK) Inspector (if applicable)**

I declare under our sole responsibility that I have not been active for the manufacturer in design, construction, marketing or other activities. The content of the forms have been checked.

Evaluation by Inspector: Stamp, Clear Name, Signature and Date:

Comments on Evaluation by Inspector:

**IMCI / IMCI (UK) office**

**Application review**

Application accepted for IMCI: clear name, date (yymmdd) [Yes, No]

Application accepted for IMCI (UK): clear name, date (yymmdd) [Yes, No]

Comments to application or reason(s) if refused:

**Evaluation**

Evaluation by office (if applicable): Clear Name, Signature and Date (yymmdd):

Comments on Evaluation by office:

**Review**

Review by office: Clear Name, Signature and Date (yymmdd):

Comments on Review by office:

**The certification decision is made by signing and dating the corresponding IMCI certificate**