



# Marine Design Appraisal Document

Lloyd's Register EMEA  
Engineering Systems  
71, Fenchurch Street  
London  
EC3M 4BS

Date  
**28 September 2010**

Quote this reference on all future communications  
**LDSO/ENG/JJB/WP2395088**

ROYAL HUISMAN  
Yard No. 388  
Job Order No. E O 50648  
Multiple Pump Drive

1. Plans as listed in the Appendix have been examined for compliance with the applicable sections of Lloyd's Register's Rules and Regulations for the Classification of Special Service Craft (2010), and are assigned an appraisal status as indicated, in accordance with the following conditions:-

## 2. Machinery

Multiple Pump Drive Type	MPD22
Manufacturer	Transfluid
Rating	600kW at 1800rpm

## 3. Details

	Diameter, mm	Material	Min UTS, N/mm <sup>2</sup>
Pump Shaft	OD 80	39NiCrMo3	880

## 4. Conditions of Approval

4.1 None.

## 5. General Comments

5.1 None

J.J. Baghurst  
Senior Surveyor  
Engineering Systems  
London Design Support Services  
T: +44 (0)20 7709 9166 (switchboard)  
T: +44 (0)20 7423 1937 (direct line)  
F: +44 (0)20 7423 1824  
E: [engineering@lr.org](mailto:engineering@lr.org)  
W: [www.lr.org](http://www.lr.org)

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register EMEA  
is a member of the Lloyd's Register Group

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Lloyd's Register EMEA  
Engineering Systems  
71, Fenchurch Street  
London  
EC3M 4BS

Date  
**28 September 2010**

Quote this reference on all future communications  
**LDSO/ENG/JJB/WP2395088**

## Appendix

1. The documents listed below have been examined

Drawing Number	Revision	Title	Appraisal Status
DB100421	4	Sectional General Arrangement	SI
SA105412B	-	Dummy Flywheel 18"	A
SA106478	0	Flanged Shaft	A
SA105560	1	Splined Hub for AC8 F2	A

2. Documents not mentioned above are not required for appraisal or as supporting documentation and have not been retained.

### Appraisal Status Key

- A Approved - provided the arrangements are to the surveyor's satisfaction  
SI Retained as supporting documentation for information only

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register EMEA  
is a member of the Lloyd's Register Group