

Technical Circular to Licensees

7336

Distribution: Licensees and network companies

Remarks:

Sheets: 1 / 4

Subject:
Sulzer 2- & 4-stroke Engines

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Our Reference/Telephone:
Dept. 4041

Rule for the Identification of Engine Versions

- Identification of Sulzer 2-stroke Engines
- Identification of Sulzer 4-stroke Engines
- When is a Modification to be shown in the Engine Identification

The need to identify and allocate design drawings and documentation (like H-drawing list, engine specification, ESPM, MIM, EnSel, WinGTD, operating manuals, maintenance manuals and code-books) as well as service bulletins to the right engines, requires a rule on how to identify engine versions clearly. Such a rule for the identification of engine versions must be valid for all Sulzer engine types. In order to ensure this, the following rule is applied.

1. Identification of Sulzer 2-stroke engines

	RT...	Basic type designation				
	RTA	type designation for RT engines with a camshaft				
	RT-flex	type designation for RT engines with 'Sulzer Common Rail'				
Example	7	RTA	84	T	-	B
	6	RT-flex	58	T	-	B
	number of cylinders		bore size in centimetres			modification letter, see remark 2
		type designation		main application, see remark 1		

Proper writing: 7RTA84T-B

6RT-flex58T-B

12RTA96C

There are no spaces between the numbers and letters

Remarks:

1. Main application (only one letter):

C stands for **C**ontainerships or generally fast ships

U stands for **U**niversal or general marine applications

T stands for **T**ankers, bulkers or generally slower ships

F stands for **F**ixed installations like diesel power plants

2. Modification letter (only one letter):

This letter must be decided in accordance with the requirements stated in section 3. All letters of the alphabet may be used from **B** onwards except **C**, **F**, **T** and **U**.

2. Identification of Sulzer 4-stroke engines

Example	16	ZA	40	S		
	9	ZA	50	S		
	8	S	20	U	-	B
	number of		bore size in			modification letter, see remark 4
	cylinders		centimetres			
		type designation	further type sub-designation			
			see remark 3			

Proper writing: 16ZA40S

9ZA50S

8S20U-B

There are no spaces between the numbers and letters

Remarks:

3. Further type sub-designation (one or more letters):

In the past 'S' was used for long-stroke and 'U' for up-rated (higher power engines). Other letters may be used or added as deemed necessary, i.e. 12ZA40SG where 'G' stands for Gas-fuelled engines.

4. Modification letter (only one letter):

This letter must be decided in accordance with the requirements stated in section 3. All letters of the alphabet may be used from **B** onwards except **S**, **G**, **U** and possibly further letters used in the sub-designation (see under remark 3).

3. When is a modification to be shown in the engine identification:

A modification letter (see remarks 2 and 4) is required if:

3.1 The previous engine is offered and built in parallel to the new engine version:

Example: RTA-2 and RTA-2U or
RTA-2U and RTA-2U-B, or
S20U and S20U-B

3.2 An engine is changed in its power and/or speed to such an extent that new data sheets and calculation programs (EnSel, WinGTD) have to be issued.

3.3 An engine is changed in its characteristic such that a different propeller layout is required.

- 3.4 An engine is changed externally in such a way that new installation drawings have to be made or, in other words, the modified engine cannot be installed in the place of the previous engine without alterations to the engine room of the ship. Examples are RTA84T and RTA84T-B.
- 3.5 An engine is changed internally in such a way that it is basically a new engine, i.e. engine descriptions, operating manuals, maintenance manuals, code book, H-drawing list, etc. must be considerably modified.

Who decides when to introduce a new engine identification:

In principle, the head of the 'Technology' department Wärtsilä NSD Switzerland must decide upon a request for a change. The decision must be enforced immediately thereafter. The person who requested the change as well as all persons involved or affected by the change must be informed quickly in order that the proper identification can be used immediately in all documents.

Wärtsilä NSD Switzerland Ltd.