



SULZER

RLA/RLB76

Operating Manual

“Marine”

Vessel:

Type:

Engine No.:

Book No.:

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	Control system	4
	Governor Overspeed system Fuel injection pumps Control linkage	5
	Charge air receiver Auxiliary blower Exhaust gas turbocharger Charge air cooler	6
	Cylinder lubrication	7
	Pipe systems	8
	Measuring instruments	9

For Particular Attention

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Before the operator intends to use the engine or before maintenance work is undertaken, the Operating Instructions or the Maintenance Manual respectively is to be read carefully.

To ensure the best efficiency, reliability and lifetime of the engine and its components, only original spare parts should be used.

It is to be ensured as well that all equipment and tools for maintenance are in good condition.

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This manual is primarily intended for use by the engine operating and maintenance personnel. It is assumed that it will always be at the disposal of such personnel for the operation of the engines and/or for the required maintenance work.

This manual has been prepared on the assumption that operation and maintenance of the engines concerned will always be carried out by personnel having the special knowledge, training and qualifications needed to handle in a workman-like manner diesel engines of the corresponding size, the associated auxiliary equipment, as well as fuel and other operating media.

Therefore, generally applicable rules, which may also concern such items as protection against danger, are specified in this manual in exceptional cases only.

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F O R E W O R D

The following "description and operating instruction" describes the engine, certain engine parts and its function. Further, it contains the important data to operate it. It is presumed that the engine-room staff already possess the necessary general knowledge concerning the operation of diesel engines.

A separate "Maintenance Manual" deals with the upkeep of the engines as well as the tools and devices required to do so. Further it contains tables for clearances and tightening forces for bolt respective stud connections.

The individual engine parts are numbered and listed in a separate "code book". Spare parts are ordered from the code book exclusively.

The subdivisions of the main-and sub groups in the service instruction book, the maintenance manual and the code book are identical.

For the parts built by other firms such as turbocharger, governor etc. please refer to the respective instruction books which at the same time contain the code numbers for spare parts.

In addition to the above mentioned books, setting tables, trial and erection records are also provided.

In the same folder as said records and tables are "Performance data sheets", which should be completed as thoroughly as possible and then sent to the engine builder whenever advice is required in regard to the engine performance. This will help the specialist to give the correct recommendations.

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Running gear
Turning gear****3****Control system****4****Governor
Overspeed system
Fuel injection pumps
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E X P L A N A T I O N

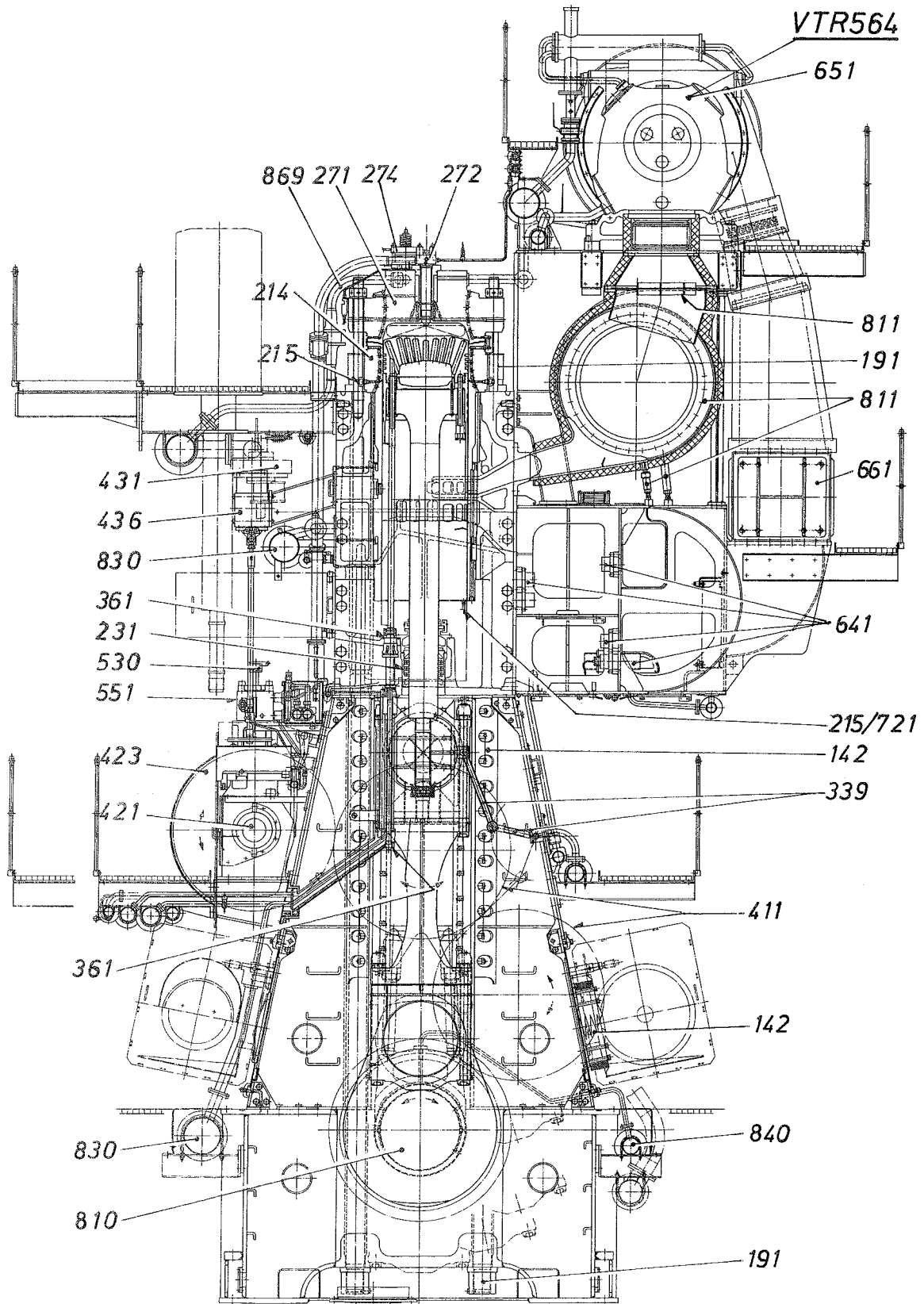
of the sectional views of the engine 003-20, -20a, -21, -21a and -21b

The cross- and longitudinal sectional views show an engine of the type RLB76.

In view of the fact that - in accordance with the number of cylinders - the engine can be equipped with exhaust gas turbochargers of different size and, furthermore, that the camshaft drive may be provided on the driving end or in the middle of the engine, the following provide views of various engine versions:

- 003-20 Cross sectional view of an engine with turbocharger
VTR 564
- 003-20a Cross sectional view of an engine with turbocharger
VTR 714
- 003-21 Longitudinal view of an engine with 4 to 6 cylinders,
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Camshaft drive on the driving end of the engine.
- 003-21a Longitudinal view of an engine with 4 to 6 cylinders,
w i t h mass balancers on the driving end and at the
free end.
Camshaft drive on the driving end of the engine
- 003-21b Longitudinal view of an engine with 7 to 10 cylinders,
with camshaft drive in the middle of the engine.

The numbers used to designate the various engine components in the sectional views relate to the section in the operating manual in which they are described in greater detail.



003-20a

