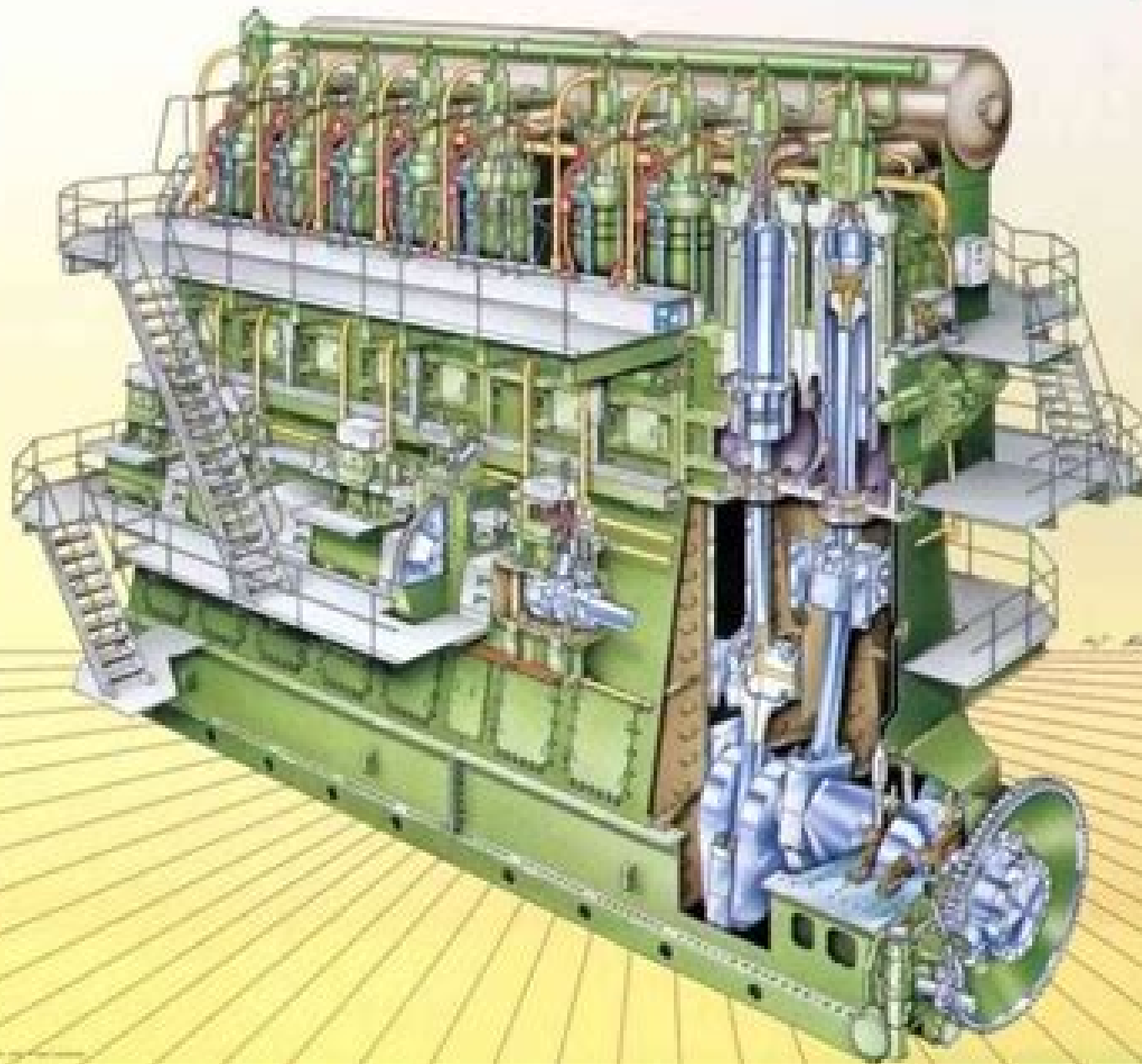


# Sulzer 9RTA84C

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RTA-series  
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Two-stroke Diesel Engines  
1480–45 840 kW  
2000–62 400 bhp  
106–54 rev/min

# Sulzer Engine Manual Rta 84

**Puja Mehta**



## **Sulzer Engine Manual Rta 84:**

*Modern Marine Engineer's Manual* Alan Osbourne, 1965 Volume II of the manual that has been absolutely indispensable to the ship's engineer for over forty years was completely updated by a team of practicing marine engineers in 1991. Chapters on obsolete equipment were deleted; those on systems that are still current were updated and new chapters were written to cover the innovations in materials, machines and operating practices that evolved recently.

**Modern Marine Internal Combustion Engines** Ievgen Bilousov, Mykola Bulgakov, Volodymyr Savchuk, 2020-06-30 This book offers a comprehensive and timely overview of internal combustion engines for use in marine environments. It reviews the development of modern four-stroke marine engines, gas and gas diesel engines and low speed two-stroke crosshead engines, describing their application areas and providing readers with a useful snapshot of their technical features, e.g. their dimensions, weights, cylinder arrangements, cylinder capabilities, rotation speeds and exhaust gas temperatures. For each marine engine, information is provided on the manufacturer, historical background, development and technical characteristics of the manufacturer's most popular models and detailed drawings of the engine depicting its main design features. This book offers a unique self-contained reference guide for engineers and professionals involved in shipbuilding. At the same time, it is intended to support students at maritime academies and university students in naval architecture, marine engineering with their design projects at both master and graduate levels, thus filling an important gap in the literature.

**Modern Marine Engineer's Manual** Everett C. Hunt, 2002 This manual, first published in 1943, has been indispensable to ships' engineers for generations. The third edition, revised and updated by a team of marine engineers, professors, follows in the venerable style of its predecessors. Text relating to obsolete equipment has been eliminated; information on systems that are still current has been updated and new material has been added to reflect innovations in equipment and operative practices. Extensive coverage on the newest medium speed diesel engine has been added to the text. Environmental concerns have been recognized with a section on engine exhaust emissions and information about new refrigerants and the maintenance of refrigeration systems. New equipment for trash handling, sewage processing, bilge water discharge and incineration are discussed with reference to international regulations. Ship trial procedures and the new equipment used in trial data collection are presented in detail.

*The Japan Shipbuilding Information Notes*, 1986    *Revista Del Rio de La Plata*, 1993  
*Shipbuilding & Marine Engineering International*, 1982    **Paper**, 1993    *Japanese Technical Periodical Index*, 1987  
**Asian Shipping**, 1999    *The Official Inmarsat Ship Earth Station Directory*, 1996    *Government Reports Announcements & Index*, 1986-03    *Diesel & Gas Turbine Worldwide Catalog*, 1983    **British Motorship**, 1983  
*Shipping World & Shipbuilder*, 1990    **Rozcieńczenie oleju paliwem jako czynnik ryzyka eksplozji w skrzyniach korbowych okrętowych bezwodzikowych silników spalinowych** Leszek Chybowski, 2023-12-20 W monografii w holistyczny sposób przedstawiono wyniki badań dotyczących wpływu rozcieńczenia oleju smarowego olejem napędowym w

kontekcie zmian w właściwościach fizykochemicznych oleju smarowego oraz w właściwościach mgły olejowej wytworzonej z mieszaniny oleju smarowego z olejem napędowym. W związku z różnymi opiniami w literaturze naukowej dotyczącymi wpływu lub braku wpływu rozcieńczenia oleju smarowego olejem napędowym na ryzyko eksplozji w skrzyni korbowej postawiona została hipoteza, że olej napędowy stanowi czyż zanieczyszczenie oleju smarowego zwiększa ryzyko powstania eksplozji w skrzyni korbowej bezwodzikowego silnika spalinowego w związku z niezależnym oddziaływaniem szeregu czynników, takich jak 1) pogorszenie względem czystego oleju właściwości smarności olejów rozcieńczonego paliwem 2) zwiększenie względem czystego oleju lotności i poprawa właściwości zapłonowych oleju rozcieńczonego paliwem 3) zwiększenie względem czystego oleju udziału kropel o najmniejszych średnicach we mgle olejowej wytworzonej z oleju rozcieńczonego. W celu weryfikacji hipotezy zrealizowano wieloelementowy plan badawczy mający na celu wszechstronne opisanie wpływu rozcieńczenia oleju smarowego olejem napędowym na powstawanie gorących miejsc w skrzyni korbowej, które są elementem koniecznym do zainicjowania procesu tworzenia wybuchowej białej mgły olejowej w skrzyni korbowej oraz dla inicjacji zapłonu mieszaniny palnej. Badaniom poddano mieszaniny oleju smarowego z olejem napędowym w różnym stężeniu oleju smarowego w mieszaninie 0%, 1%, 2%, 5%, 10%, 20%, 30%, 40%, 50%, 75% i 100% wag. Jako oleje smarowe do wytworzenia tych mieszanin wykorzystano dwa najpowszechniejsze w okrętowych instalacjach smarowania obiegowego silniki w bezwodzikowych jednogatunkowe oleje smarowe należące do klas lepkościowych SAE 30 i SAE 40. Jako olej napędowy wybrano paliwo spełniające wymagania kategorii dla paliw eglugowych DMX. Dla pełnego zakresu stężenia oleju napędowego w badanych olejach smarowych określono właściwości reologiczne, tribologiczne i zapłonowe tych mieszanin. Dodatkowo badaniu poddano mgły olejów wygenerowanych mechanicznie z mieszanin 0%, 2%, 5%, 10%, 20%, 50% i 100% wag oleju napędowego w oleju smarowym należącym do klasy lepkościowej SAE 40. Określono charakterystyki morfologiczne kropel mgły olejowej w tym przepuszczalność wiatru oraz rozkład wielkości kropel. Wybrane średnice percentylowe kropel, wybrane średnie średnice wałone kropel oraz udział procentowy kropel o średnicach istotnych dla powstania białej mgły olejowej 5 m odpowiedzialnej za eksplozję w skrzyniach korbowych silników w spalinowych. Dla określonych poszczególnych parametrów w fizykochemicznych mieszaninach oraz wskaźnik w opisywanych charakterystykach morfologicznych mgły olejowej dokonano oceny zmienności tych wielkości oraz przeanalizowano korelacje pomiędzy poszczególnymi wartościami a poziomem rozcieńczenia oleju smarowego olejem napędowym. Wyciągnięto szereg wniosków z przeprowadzonych badań, potwierdziły istnienie szeregu związków, w tym rosnącym poziomem rozcieńczenia oleju smarowego olejem napędowym a czynnikami wpływającymi na zwiększenie ryzyka wystąpienia eksplozji w skrzyni korbowej, takimi jak intensyfikacja zacierania się współpracujących elementów, wzrost siły tarcia w parach tribologicznych, szybsze odparowywanie oleju, zwiększenie lotności i obniżenie temperatury zapłonu oleju, czy intensyfikacja tworzenia się kropel mgły olejowej o najmniejszych średnicach, kropel zwiększenie liczby kropel i zmniejszenie ich średnic. Uzyskane wyniki badań potwierdziły prawdziwość postawionej hipotezy badawczej.

*Maintenance Manual for Sulzer Diesel Engines RT 68* Gebrüder Sulzer Aktiengesellschaft, 1984

Maintenance Manual for Sulzer Diesel Engines RLA76/RLB76 Gebrüder Sulzer Aktiengesellschaft, 1984

**Maintenance Manual for Sulzer Diesel Engines ZAL 40** Gebrüder Sulzer Aktiengesellschaft, 1983      Description of  
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