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Engine Wartsila With Dual Fuel And Gas Engine Mode L28/32H - Exchange of Cylinder Head, Piston & Liner

WARTSILA 4-STROKE ENGINE

COMPLETE OVERHAULING Wartsila

~~20v34SG~~ Machining of Diesel Engines -

W ä rtsil ä WARTSILA ENGINE FIRST

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START AFTER PAINTING Operations
in Africa | ~~W ä rtsil ä~~ L28/32H Overhaul
of Cylinder, Piston and Liner WinGD's
14RT-flex96C the most powerful diesel
engine (formerly W ä rtsil ä) General
Engine Working Principles | W ä rtsil ä
Smokeless gas start with the Wartsila
46DF engine | W ä rtsil ä

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The 46DF Engine | W ä rtsil ä ~~Worlds largest ship engine~~ ~~14 Cylinder~~ ~~14RT Flex96C Tier II~~ World's largest Diesel Engine starting Exceptional Engineering | Mega Diesel Engine | Free Documentary Crankshaft exchange on the MS Zaandam cruise ship Wartsila 46 starting wartsila 6R32 first starting after overhauling

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~~Wartsila in the Netherlands~~ Sulzer
12RTA96C: a walk around world's most
powerful reciprocating engine, running at
70 rpm Wartsila 50 DF start up put
online- Gas Mode

Caterpillar Marine Engine Manufacturing
Kiel The Engine of Industry | Wärtsilä
Big Diesel Engine 23.000HP Piston

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Removal & Power Plant Tour (ENG SUBS) Wartsila Engine Main Components/Engine Main Components?Wartsila w20v34sg Fuel Pump Cover Overhaul Our History | Wä rtsil ä - The future-proof, efficient and flexible W ä rtsil ä 31DF engine power plant solution | W ä rtsil ä

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The Most Efficient 4-Stroke Engine in the World: The New Wärtsilä 31 |

Wärtsilä world most efficient 4 stroke marine auxiliary engine wartsila 31

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Engine wartsila ?31DF Series Product Manual 4-stroke, non-reversible, turbocharged and intercooled diesel engine with direct fuel injection (216 pages) Summary of Contents for Wartsila

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Fig1-2 V-engines(DAAF062155) Engine

LE1 HE1 WE1 HE2 HE4 HE3 LE2 LE4

WE3 WE2 W12V32 6865 2430 2900

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2120 650 1210 4150 300 1225 1590
W16V32 7905 2595 3325 2120 650 1210
5270 300 1225 1590 Engine WE5 LE3
WE4 HE5 HE6 WE6 LE5 Weight
W12V32 1450 1985 850 1905 470 540
555 56.9 W16V32 1665 1925 850 2020
550 575 560 71.1

*Turbochargeratflywheelend.

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W ä rtsil ä 32 Product guide
Wartsila Marine Diesel Engines: workshop
manuals PDF W ä rtsil ä Oyj Abp is a
Finnish public engineering company that
manufactures machinery and other
equipment for gas, oil and other raw

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materials power plants. Throughout its history, the company has worked in the field of shipbuilding, paper, locks, ceramics, glass.

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W ä rtsil ä 26 Product Guide 4.

Description of the Engine Description of the Engine Definitions Fig 4-1 In-line engine and V-engine definitions (1V93C0029 / 1V93C0028) Main engine components Main dimensions and weights are presented in chapter Main Data and Outputs. 4.2.1 Engine block The engine

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block is a one piece nodular cast iron component.

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Engine Room Layout W ä rtsil ä 20
Product Guide E = Min. distance between

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engines dependent on common base frame

F = Width of the common base frame

dependent on width of the generator 18.2

Space requirements for maintenance

18.2.1 Working space reservation The

required working space around the engine

is mainly determined by the dismounting

dimensions of some engine components, as

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well as space ...

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The engine is fully equipped with all essential ancillaries and a thoroughly planned interface to external systems. The Wärtsilä 32 engine is fully compliant

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with the IMO Tier II exhaust emissions regulations set out in Annex VI of the MARPOL 73/78 convention. Download W ä rtsil ä 32 Brochure Download W ä rtsil ä 32 Product Guide

W ä rtsil ä 32 - diesel engine -

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W ä rtsil ä is a global leader in smart technologies and complete lifecycle solutions for the marine and energy markets. By emphasising sustainable innovation, total efficiency and data analytics, W ä rtsil ä maximises the environmental and economic performance

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of the vessels and power plants of its customers.

Engines and generating sets -
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The engine can switch from MDO to
HFO and vice versa without power

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interruption at any engine operation load.

The Wärtsilä 20 engine is fully compliant with the IMO Tier II exhaust emissions regulations set out in Annex VI of the MARPOL 73/78 convention.

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W ä rtsil ä 20 - Diesel engine -

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Engine TC HE5 HE6 WE1 WE1 WE2

WE3 WE4 WE4** WE5 WE6 Weight

W12V50DF TPL71 3100 1140 4055 4525

2290 1800 1495 1300 2220 770 175

W16V50DF TPL76 3300 1100 4730 5325

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2290 1800 1495 1300 2220 930 224

*TCindringend

**Withmonospex(exhaustmanifold)

With air suction branches Alldimensionsin mm.Weightsaredryengines,inmetrictons,of rigidlymountedengines withoutflywheel.

1-6 DAAB605816 1 ...

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W ä r tsil ä 50DF

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Wartsila Engines - Diesel

Description of the Engine Description of the Engine Definitions Fig 4-1 In-line engine and V-engine definitions (1V93C0029 / 1V93C0028) Main components and systems The dimensions and weights of engines are shown in

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section 1.5 Dimensions and weights . 4.2.1 Engine block The engine block, made of nodular cast iron, is cast in one piece for all cylinder numbers.

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Fig1-2 V-engines(DAAE075826B) Engine
LE1* LE1 LE2 LE3* LE3 LE4 LE5* LE5
HE1 HE3 3765* / 1620 3770 10945
10284 7600 1830 1952 460 520 774
12V46F 14V46F - 11728 8650 - 2347 485
- 872 4234 1620 16V46F - 12871 9700 -
2347 485 - 872 4234 1620 Engine HE4

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HE5 HE6 WE1 WE2 WE3 WE5 WE6
Weight[ton] 2825* / 760 177 3150 4040* /
2290 1820 4026 2975* / 790 2980 ...

:IUWVLOI 46F - W ä rtsil ä

The W ä rtsil ä 50DF engine operates on the lean-burn principle. Lean combustion

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enables a high compression ratio, which in turn increases engine efficiency, reduces peak temperatures, and therefore also reduces NOx emissions. Both the gas admission and pilot fuel injection are electronically controlled.

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Engine 1200rpm 1000rpm 8L20 1760
1600 9L20 1980 1600 Outputsaregivenink
Watflywheel,includingorexcludingengined
rivenpumps,ISO15550-2002(E)conditions.

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W ä r t s i l ä 20

Engine[kW] Engine[kW] Generator[kVA]

Engine[kW] Generator[kVA]

W ä r t s i l ä 6L34DF 3000 2880 3460 3000

3600 W ä r t s i l ä 8L34DF 4000 3840 4610

4000 4800 W ä r t s i l ä 9L34DF 4500 4320

5180 4500 5400 W ä r t s i l ä 12V34DF

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6000 5760 6910 6000 7200

W ä rtsil ä 16V34DF 8000 7680 9220

8000 9600 The mean effective pressure $P_{e,calc}$ is calculated using the following formula:

where: P_e = mean effective pressure [bar] P = output per cycle

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Wärtsilä 34DF - Product guide

Wärtsilä has introduced the largest gas engine on the market. Based on the well-proven technology of the Wärtsilä 34SG and 50DF engines, the Wärtsilä 18V50SG has an output of 18 MW and offers an alternative to gas turbines for large power plants.

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