

2.2 Engine layout

Illustration valid for 8P1216V 4000 Gey engine



- | | | |
|--|------------------------------|------------------------------|
| 1 Coolant line | 8 Air supply | 16 Fuel line (low pressure) |
| 2 Exhaust system | 9 Starting equipment | 17 Lubr oil filter |
| 3 Exhaust turbocharger | 10 Oil filter rack | 18 Fuel pump (high pressure) |
| 4 Air intake | 11 Mounting / support | 19 Gear train |
| 5 Intercooler | 12 Oil pan | 20 Running gear |
| 6 Engine governor | 13 Fuel line (high pressure) | 21 Coolant system |
| 7 PTO systems, driving end and free end (coupling) | 14 Inspection port cover | 22 Lubr oil system |
| | 15 Cylinder head | |

Engine model designation

Key to the engine model designations 8P1216V 4000 Gey

Designation	Meaning
8P1216	Number of cylinders
V	Cylinder arrangement: V engine
4000	Series
G	Application
E	Application segment (L, A, B, G)
1	Design index (1, 2, ...)

3 Technical Data

3.1 12V 4000 engine data, continuous operation, variable SB, optimized fuel consumption

Explanation

Mean	Meaning
CL	Rel. value: Continuous power
BL	Rel. value: Fuel stop power
A	Design value
G	Guaranteed value
B	Guideline value
L	Limit value, up to which the engine can be operated without changes (e.g. oil power setting)
N	Not yet defined value
-	Not applicable
X	Applicable

REFERENCE CONDITIONS

Engine model		12V 4000 G216	12V 4000 G216	12V 4000 G216
Application group		38	38	38
Intake air temperature	°C	25	25	25
Charge air coolant temperature	°C	55	55	55
Barometric pressure	mbar	1000	1000	1000
Site altitude above sea level	m	100	100	100

POWER-RELATED DATA (power ratings are net brake power as per ISO 3046)

Power / Torque		G	L	L
Engine rated speed	A rpm	1800	1800	1800
Continuous power (ISO 3046 r10%) (overhaul capability: design power DIN 6002, ISO 3006)	A kW	1162	1248	1248

GENERAL CONDITIONS (for maximum power)

Number of cylinders		G	L	L
Intake air depression (new filter)	A mbar	30	30	30
Intake air depression, max.	L mbar	50	50	50
Exhaust pressure	A mbar	30	30	30
Exhaust pressure, max.	L mbar	51	51	51

Mtu Engine Service Manual

SJ Ball



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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 *Fundamentals of Medium/Heavy Duty Diesel Engines* Gus Wright, 2015-12-16 Based on the 2014 National Automotive Technicians Education Foundation NATEF Medium Heavy Truck Tasks Lists and ASE Certification Test Series for truck and bus specialists *Fundamentals of Medium Heavy Duty Diesel Engines* is designed to address these and other international training standards The text offers comprehensive coverage of every NATEF task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking *Fundamentals of Medium Heavy Duty Diesel Engines* describes safe and effective diagnostic repair and maintenance procedures for today s medium and heavy vehicle diesel engines

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Table of Contents Mtu Engine Service Manual

1. Understanding the eBook Mtu Engine Service Manual
 - The Rise of Digital Reading Mtu Engine Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mtu Engine Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mtu Engine Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mtu Engine Service Manual
 - Personalized Recommendations
 - Mtu Engine Service Manual User Reviews and Ratings
 - Mtu Engine Service Manual and Bestseller Lists
5. Accessing Mtu Engine Service Manual Free and Paid eBooks

- Mtu Engine Service Manual Public Domain eBooks
- Mtu Engine Service Manual eBook Subscription Services
- Mtu Engine Service Manual Budget-Friendly Options
- 6. Navigating Mtu Engine Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mtu Engine Service Manual Compatibility with Devices
 - Mtu Engine Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mtu Engine Service Manual
 - Highlighting and Note-Taking Mtu Engine Service Manual
 - Interactive Elements Mtu Engine Service Manual
- 8. Staying Engaged with Mtu Engine Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mtu Engine Service Manual
- 9. Balancing eBooks and Physical Books Mtu Engine Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mtu Engine Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mtu Engine Service Manual
 - Setting Reading Goals Mtu Engine Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mtu Engine Service Manual
 - Fact-Checking eBook Content of Mtu Engine Service Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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