

2.2 Engine layout

Illustration valid for 8P1216V 4000 Gey engines



- | | | |
|---|-------------------------------|-------------------------------|
| 1. Coolant line | 9. Air supply | 16. Fuel line (low pressure) |
| 2. Exhaust system | 10. Starting equipment | 17. Lube oil filter |
| 3. Exhaust turbocharger | 11. Oil filter rack | 18. Fuel pump (high pressure) |
| 4. Air intake | 12. Mounting / support | 19. Gear train |
| 5. Intercooler | 13. Oil pan | 20. Running gear |
| 6. Engine governor | 14. Fuel line (high pressure) | 21. Coolant system |
| 7. PTO systems, driving end and free end (coupling) | 15. Inspection port cover | 22. Lube oil system |
| | 16. 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 6200, ISO 3046)	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

Lingsheng Yao



Mtu Engine Service Manual:

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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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