

2.2 Engine layout

Illustration valid for 8P1216V 4000 Gey engine



- | | | |
|--|------------------------------|------------------------------|
| 1 Coolant line | 9 Air supply | 16 Fuel line (low pressure) |
| 2 Exhaust system | 10 Starting equipment | 17 Lubr oil filter |
| 3 Exhaust turbocharger | 11 Oil filter rack | 18 Fuel pump (high pressure) |
| 4 Air intake | 12 Mounting / support | 19 Gear train |
| 5 Alternator | 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 Lubr 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. of power setting)
N	Not yet defined value
-	Not applicable
X	Applicable

REFERENCE CONDITIONS

Engine model		12V 4000 G214	12V 4000 G216	12V 4000 G218
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	B
Engine rated speed	A rpm	1800	1800	1800
Continuous power (ISO 3046 r10%) (overhaul capability: design power only 4000, ISO 3046)	A kW	1162	1248	1348

GENERAL CONDITIONS (for maximum power)

Number of cylinders		G	L	B
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

G Thomas



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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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