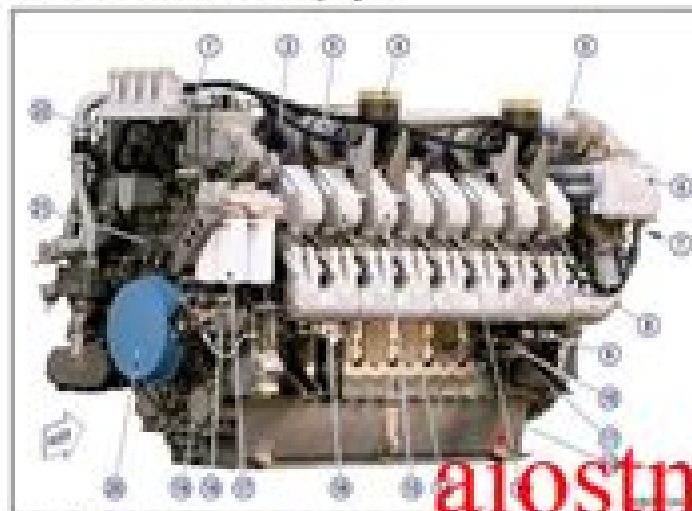


## 2.2 Engine layout

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 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 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, S)
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		L	G	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	1248

GENERAL CONDITIONS (for maximum power)

Number of cylinders		L	G	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

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1. Understanding the eBook Mtu Detroit Diesel 2015 Series Manual
  - The Rise of Digital Reading Mtu Detroit Diesel 2015 Series Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mtu Detroit Diesel 2015 Series 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 Detroit Diesel 2015 Series Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mtu Detroit Diesel 2015 Series Manual
  - Personalized Recommendations
  - Mtu Detroit Diesel 2015 Series Manual User Reviews and Ratings
  - Mtu Detroit Diesel 2015 Series Manual and Bestseller Lists
5. Accessing Mtu Detroit Diesel 2015 Series Manual Free and Paid eBooks
  - Mtu Detroit Diesel 2015 Series Manual Public Domain eBooks
  - Mtu Detroit Diesel 2015 Series Manual eBook Subscription Services
  - Mtu Detroit Diesel 2015 Series Manual Budget-Friendly Options
6. Navigating Mtu Detroit Diesel 2015 Series Manual eBook Formats

- ePub, PDF, MOBI, and More
- Mtu Detroit Diesel 2015 Series Manual Compatibility with Devices
- Mtu Detroit Diesel 2015 Series Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mtu Detroit Diesel 2015 Series Manual
  - Highlighting and Note-Taking Mtu Detroit Diesel 2015 Series Manual
  - Interactive Elements Mtu Detroit Diesel 2015 Series Manual
- 8. Staying Engaged with Mtu Detroit Diesel 2015 Series Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mtu Detroit Diesel 2015 Series Manual
- 9. Balancing eBooks and Physical Books Mtu Detroit Diesel 2015 Series Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mtu Detroit Diesel 2015 Series Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mtu Detroit Diesel 2015 Series Manual
  - Setting Reading Goals Mtu Detroit Diesel 2015 Series Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mtu Detroit Diesel 2015 Series Manual
  - Fact-Checking eBook Content of Mtu Detroit Diesel 2015 Series 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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