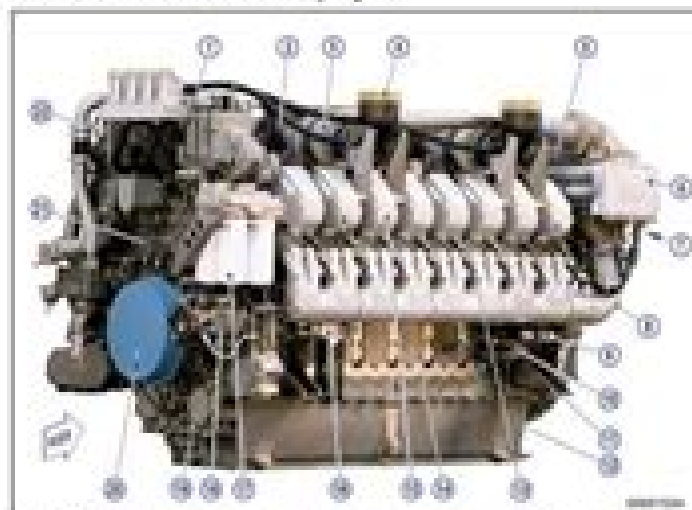


2.2 Engine layout

Illustration valid for 81216V 4000 Gey engine



- | | | |
|--|-------------------------------|-------------------------------|
| 1. Coolant line | 8. Air supply | 16. Fuel line (low pressure) |
| 2. Exhaust system | 9. Starting equipment | 17. Lube 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. Control system |
| 7. PTO systems, driving and
and free end (coupling) | 14. Inspection port cover | 22. Lube oil system |
| | 15. Cylinder head | |

Engine model designation

Key to the engine model designations 81216V 4000 Gey

Designation	Meaning
81216	Number of cylinders
V	Cylinder arrangement: V engine
4000	Series
G	Application
E	Application segment (L, A, S, B)
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	Ref. value: Continuous power
BL	Ref. value: Fuel stop power
A	Design value
S	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 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
Sea altitude above sea level	m	100	100	100

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

Number of cylinders		12	12	12
Engine rated speed	A rpm	1800	1800	1800
Continuous power (ISO 3046 r10%) (overhead camshaft; design power DIN 4000, ISO 3046)	A kW	1162	1248	1248

GENERAL CONDITIONS (for maximum power)

Number of cylinders		12	12	12
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 12v 2015 Engine Service Manual

Jean Luc Pallas



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