

Technical Data

4000 Series

Diesel Engine

Basic technical data

Number of cylinders	16
Cylinder arrangement	60° V-tee
Cycle	4 stroke
Induction system	Turbocharged, air to water charge cooled
Combustion system	direct injection
Compression ratio	13:1
Bore	160 mm
Stroke	160 mm
Cubic capacity	61,123 litres
Direction of rotation	anti-clockwise viewed on flywheel
Firing order	1A, 1B, 3A, 3B, 7A, 7B, 5A, 5B 6A, 6B, 6A, 6B, 2A, 2B, 4A, 4B
Cylinder 1	furthest from flywheel

Total weight of Electrounit

Engine	
- dry	5570 kg
- wet	5847 kg
Overall dimensions of electrounit	
Height	2126 mm
Length	3302 mm
Width	1723 mm

Centre of Gravity (all engines)

Forward of rear face of cylinder block	900
Above crankshaft centre line	50

Moment of inertia (mk²)

-engine	11.15 kgm ²
-flywheel	9.57 kgm ²

Cyclic irregularity for engine/flywheel

-4016-61TRG1	1:260
-4016-61TRG2	1:277
-4016-61TRG3	1:260

General installation 4016-61TRG1

Designation	Units	Baseload	Prime	Standby
Gross engine power	kW/m	1260	1648	1774
Fan and battery charging alternator power	kW		60	
Net engine power	kW/m	1179	1558	1684
Brake mean effective pressure	kPa	1561	2157	2322
Combustion air flow	m ³ /min	122	155	165
Exhaust gas temperature maximum after turbocharger	°C	375	400	420
Exhaust gas flow (max)	m ³ /min		400	
Boost pressure ratio	:1		3.62	
Mechanical efficiency	%		94.0	
Overall thermal efficiency (net)	%	41.5	41.5	41.5
Friction and pumping power losses	kW/m		160	
Mean piston speed	m/s		9.5	
Engine coolant flow - minimum	l/s		23	
Typical GenSet electrical output (0.8pf)	kVA	1400	1850	2000
	kWe	1120	1480	1600
Assumed alternator efficiency	%		95	

 **Perkins®**

4016-61TRG1

4016-61TRG2

4016-61TRG3

1500 rev/min

Ratings

Electrical ratings are based on average alternator efficiency and are for guidance only, (0.8 power factor being used).

Operating point

Engine speed	1500 rev/min
Inlet manifold mixture temperature	-45 °C
Cooling water exit temperature	< 98 °C

Fuel data

To conform to BS2869 class A2 or BS EN590

Performance

Steady state speed stability at constant load	+ 0.25%
All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions.	

Governing type Digital speed governor

Noise

Estimated sound pressure level no inlet or exhaust at 1 m

-4016-61TRG-1	110 d(B)A
-4016-61TRG-2	111 d(B)A
-4016-61TRG-3	112 d(B)A

Test conditions

-air temperature	25 °C
-barometric pressure	100 kPa
-relative humidity	30%
-air inlet restriction at maximum power (nominal)	2.5 kPa
-exhaust back pressure at maximum power (nominal)	3 kPa
-fuel temperature (inlet pump)	58 °C Max.

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J. H. Haynes



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Perkins C6.354.4 AG/Ind, T6354.4 Mil 2674365 Turbocharger Rebuild Guide and Shop Manual Brian Smothers, 2015-01-08 This shop manual covers the proper disassembly inspection rework assembly and installation of the 2674365 turbocharger found on the Perkins C6 354 4 AG Ind T6354 4 MIL engines Written by an industry professional this book contains full color photos diagrams torque specs and best practices Repairing your vehicle s turbocharger is easy and cost effective if you know how This shop manual covers Garrett Honeywell T04B71 465154 0007 465154 9007 465154 5007 465154 7 Turbochargers Dodge Pick-ups 2009 thru 2018 Haynes Repair Manual Editors of Haynes Manuals, 2019-06-11 With a Haynes manual you can do it yourself from simple maintenance to basic repairs Haynes writes every book based on a complete teardown of the vehicle where we learn the best ways to do a job and that makes it quicker easier and cheaper for you Haynes books have clear instructions and hundreds of photographs that show each step Whether you are a beginner or a pro you can save big with a Haynes manual This manual features complete coverage for your Dodge pick up built from 2009 through 2018 covering Routine maintenance Tune up procedures Engine repair Cooling and heating Air conditioning Fuel and exhaust Emissions control Ignition Brakes Suspension and steering Electrical systems and Wiring diagrams *Dodge & Plymouth Vans Owners Workshop Manual* John Harold Haynes, P. B. Ward, 1978 Dodge & Plymouth Vans Owners Workshop Manual J. H. Haynes, 1983

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Table of Contents 4008tag2a Perkins Manual

1. Understanding the eBook 4008tag2a Perkins Manual
 - The Rise of Digital Reading 4008tag2a Perkins Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying 4008tag2a Perkins 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 4008tag2a Perkins Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from 4008tag2a Perkins Manual
 - Personalized Recommendations

- 4008tag2a Perkins Manual User Reviews and Ratings
- 4008tag2a Perkins Manual and Bestseller Lists
- 5. Accessing 4008tag2a Perkins Manual Free and Paid eBooks
 - 4008tag2a Perkins Manual Public Domain eBooks
 - 4008tag2a Perkins Manual eBook Subscription Services
 - 4008tag2a Perkins Manual Budget-Friendly Options
- 6. Navigating 4008tag2a Perkins Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - 4008tag2a Perkins Manual Compatibility with Devices
 - 4008tag2a Perkins Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 4008tag2a Perkins Manual
 - Highlighting and Note-Taking 4008tag2a Perkins Manual
 - Interactive Elements 4008tag2a Perkins Manual
- 8. Staying Engaged with 4008tag2a Perkins Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 4008tag2a Perkins Manual
- 9. Balancing eBooks and Physical Books 4008tag2a Perkins Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 4008tag2a Perkins Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 4008tag2a Perkins Manual
 - Setting Reading Goals 4008tag2a Perkins Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 4008tag2a Perkins Manual
 - Fact-Checking eBook Content of 4008tag2a Perkins 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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