Perkins 400 Series

Models 403C-11, 403C-15, 404C-22 and 404C-22T

WORKSHOP MANUAL

403C-11	**Three cylinder naturally aspirated diesel engine**
403C-15	**Three cylinder naturally aspirated diesel engine**
404C-22	**Four cylinder naturally aspirated diesel engine**
404C-22T	**Four cylinder turbo charged diesel engine**

Perkins Confidential: Green

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Engine lift equipment

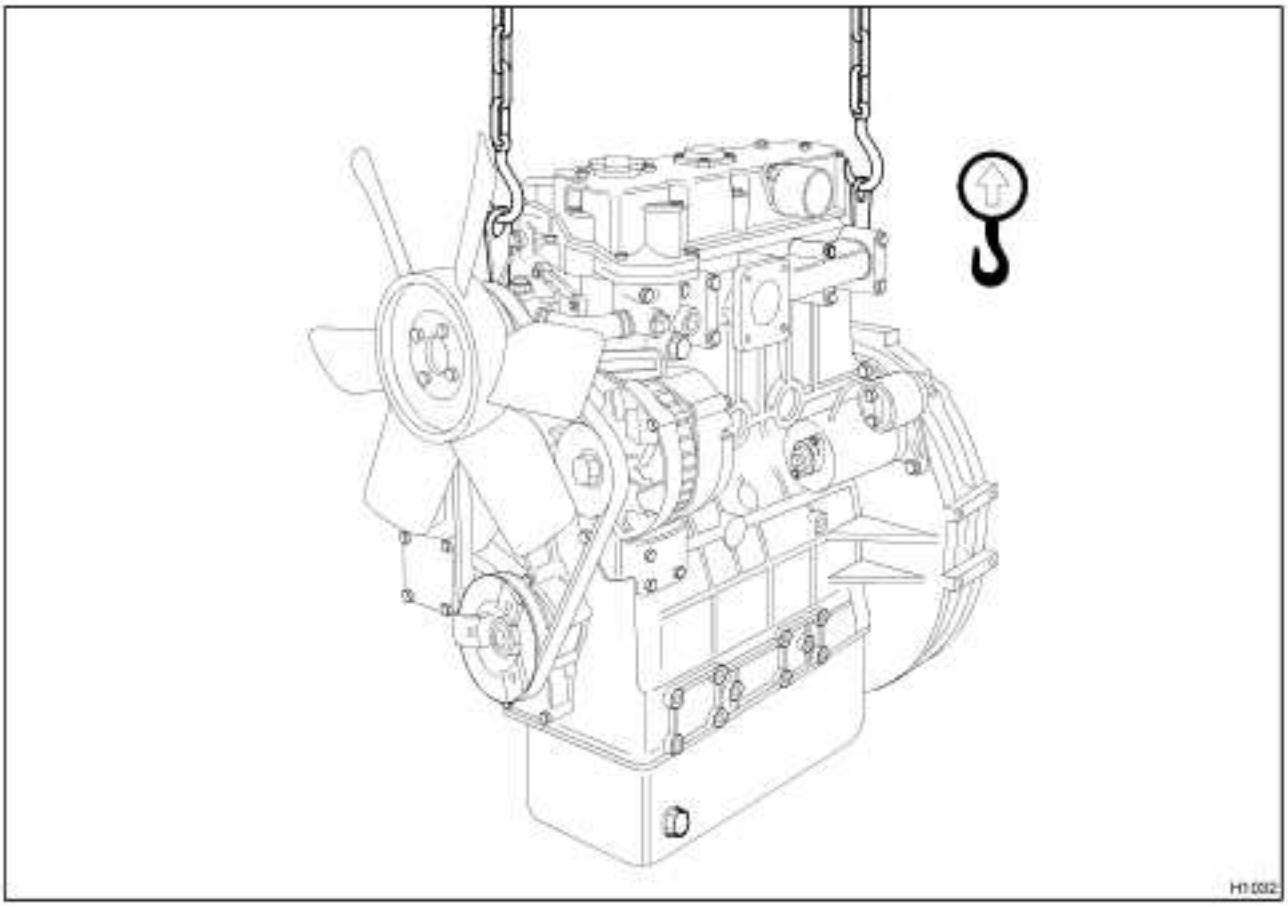
Recommended torque: lifting eye bolts

Engine	Nm (lbf ft) kgf m
All models	26 (19) 2,6

Maximum engine weights

Engine	Engine specification	Maximum engine weights (dry) (1)
403C-11	Long flywheel housing specification	114 kg
	Short flywheel housing specification	96 kg
	Backplate specification	87 kg
403C-15	Long flywheel housing specification	176 kg
	Short flywheel housing specification	154 kg
	Backplate specification	150 kg
404C-22	Long flywheel housing specification	220 kg
	Short flywheel housing specification	196 kg
	Backplate specification	184 kg
404C-22T	Long flywheel housing specification	230 kg
	Short flywheel housing specification	206 kg
	Backplate specification	194 kg

(1) Engine may alter with final specification.



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Wiring diagram - automatic shutdown 40 amp alternator - 403C-11

Automatic shutdown operation symptoms

If the conditions below last for more than 10 seconds during the start operation, the engine will shut down.

If the conditions below last for more than 2 seconds while the engine is operated, the engine will shut down.

Warning! *There is no protection against low water levels.*

Conditions

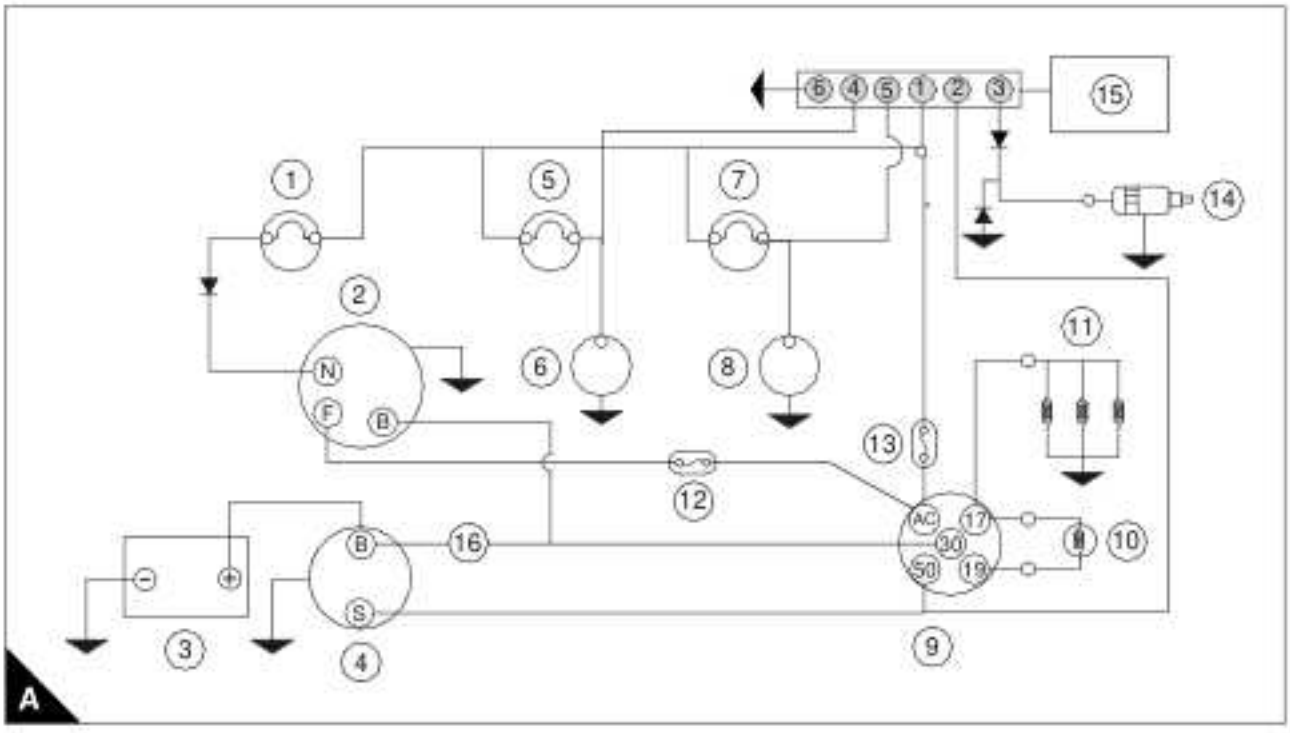
Water temperature switch: If the water temperature exceeds 105 °C ± 4 °C.

Oil Pressure Switch: If the oil pressure falls below 0,3 kgf/cm² (4.27 lbf/in²).

1 Alternator warning lamp
2 Alternator
3 Battery
4 Starter motor
5 Oil pressure warning lamp
6 Oil pressure switch (1)
7 Water temperature warning lamp
8 Thermostat switch
9 Key switch
10 Glow signal
11 Glow plugs
12 Fuse
13 Fuse
14 Solenoid switch
15 Automatic shutdown device
16 A delayed fuse can be fitted if desired

(1) Max current draw for standard oil pressure switch is 0.42 amps (5 Watt lamp max).

= Diode. Capacity: Current 3 amp. Reverse Voltage: 600V. **(This is mandatory)**.



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