SERVICE MANUAL

PERKINS DIESEL ENGINE 4.2032

40542000

SPERRY NEW HOLLAND

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Type	Four Cylinder, Four Stroke
Combustion System	Direct Injection
Bore	3.6 in (91,44 mm)*
Stroke	5 in (127 mm)
Cubic Capacity	203 in³ (3,33 Litres)
Compression Ratio	19:1
Firing Order	1, 3, 4, 2.
Tappet Clearance (cold)	
inlet	0.008 in (0,20 mm)
exhaust	0.012 in (0,30 mm)

*Nominal — for actual bore size, refer to inside diameter of finished liner. Page A.3.

Engine Ratings

Standard	60 bhp (44,7 kW) at 2,600 rev/min
Maximum Torque	156 lbf ft (21,5 kgf m or 210 Nm) at 1,500 rev/min
Alternative Rating	52 bhp (39 kW) at 2,600 rev/min
Maximum Torque	141 lbf ft (19,5 kgf m or 190 Nm) at 1,500 rev/min

Recommended Torque Tensions

	lbf ft	kgf m	Nm
Cylinder Head Nuts and Setscrews	70	9,68	95
Connecting Rod Nuts	45	6,2	60
Main Bearing Setscrews	115	15,9	155
Camshaft Gear to Camshaft Setscrew	21	2,9	28
Idler Gear Hub Nuts	21	2,9	28
Flywheel Setscrews	80	11,1	110
Water Pump Pulley Retaining Nut	55	7,6	75
Crankshaft Pulley Retaining Setscrew	110	15,2	150
Atomiser Securing Nuts	12	1,6	15
High Pressure Fuel Pipe Nuts	15	2,1	20
Thermostart	10	1,4	13,6
Thermostart Adaptor (where fitted)	10	1,4	13,6

Engine Weights, Dry

Engines with standard basic accessories, i.e. water pump, fuel pump and alternator	520 lb — 236 kg
Typical weight, dry, of standard basic engines plus flywheel, housing, starter motor, air cleaner, fan and filters	745 lb — 338 kg

De-Rating for Altitude

Where engines are called upon to operate in rarefied atmospheres occasioned by altitude, such engines should be de-rated.

The following table is given as a general guide which may be applied on a percentage basis where specific figures for a particular engine rating are not available.

Altitude	Maximum fuel delivery de-rating*
0 — 2,000 ft (600 metre)	No change
2,000 — 4,000 ft (1,200 metre)	6%
4,000 — 6,000 ft (1,800 metre)	12%
6,000 — 8,000 ft (2,400 metre)	18%
8,000 — 10,000 ft (3,000 metre)	24%
10,000 — 12,000 ft (3600 metre)	30%

*Measured at the pump setting speed as given in the Fuel Pump Setting Code.

Any necessary adjustments in this respect to the fuel pump should be carried out by the C.A.V. dealer for the territory concerned.

For any further information, apply to Service Department, Perkins Engines Ltd., Peterborough, or to those Overseas Companies listed on page 2.

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