



4TNV98

Engine Technical Data

Revision: 0

		Unit	4TNV98-GGE
General Data			
Number of Cylinders	-		4
Engine Type	-		Inline, Water-Cooled, 4 Stroke Diesel
Bore x Stroke	mm x mm		98 x 110
Total Displacement	cc		3.318
Combustion type	-		Direct Injection
Aspiration	-		Natural Aspiration
Valves per Cylinder	-		4
Compression ratio	-		18.5
Firing Order	-		1-3-4-2
Performance Data			
Net Intermittent Power	HP [kW] / rpm		54.7 [40.8]/1800, 45.6 [34.0]/1500
Net Continuous Power	HP [kW] / rpm		48.8 [36.4]/1800, 41.1 [30.7]/1500
Net Max Torque	ft-lb [Nm]/rpm		-
Low Idle Speed	rpm		1500+/-25
High Idle Speed	rpm		1900+/-25
Physical Data			
Direction of rotation	-		Counter Clockwise (view from flywheel)
Length - Inches	Inches [mm]		31.06 [789]
Width - Inches	Inches [mm]		21.85 [555]
Height - Inches	Inches [mm]		23.95 [837]
Dry Weight	lbs [kg]		584 [265]
PTO System			
Flywheel	-		SAE #3
Flywheel Housing	-		SAE #3 (125 mm Depth)
Gear Case	-		without SAE Hydraulic Pump Flange
Lubrication System			
Inclination, Continuous	degrees		30
Inclination, 3 minutes Max.	degrees		35
Lubrication Oil Filter Type	-		Paper Element
Oil Capacity, Effective	Liters		4.5
Total System Capacity	Liters		10.5
Oil Change Interval, Hours	hr		250 (50, initial)
Recommended Oil Type	API		CD, CE, CF or higher grade
Cooling System			
Fan Type	-		Pusher
Fan Diameter	Inches [mm]		16.9 [430]
Number of Blades	-		6
Fan Pulley Diameter	Inches [mm]		4.3 [110]
Crank Pulley Diameter	Inches [mm]		5.1 [130]
Fuel System			
Fuel Filter Type	-		Paper Element
Fuel Injection Pump Type	-		Distributor Type
Water Separator (Standard)	-		Mesh size: 100-mesh/inch, water reservoir 150 cc
Electrical System			
System Voltage	Volts		12 V
Electric Stop Device	-		Stop Solenoid
Alternator	-		12V-40A
Starting Aid Device	-		Air Heater, 12V 400W
Standard pre-heat time	Seconds		15
Starting Motor Type	-		Reduction
Starting Motor Power	kW		2.3