



# 4TNV98T

## Engine Technical Data

Revision: 0

Unit	4TNV98T-NSA
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### 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	-	Turbocharged Aspiration
Valves per Cylinder	-	4
Compression ratio	-	18.1
Firing Order	-	1-3-4-2

### Performance Data

Net Intermittent Power	HP [kW] / rpm]	83.5 [62.3]/2500
Net Continuous Power	HP [kW] / rpm]	--
Net Max Torque	ft-lb [Nm]/rpm	228.4 [309.7]/1800
Low Idle Speed	rpm	1000+/-25
High Idle Speed	rpm	27000+/-25

### Physical Data

Direction of rotation	-	Counter Clockwise (view from flywheel)
Length - Inches	Inches [mm]	29.76 [756]
Width - Inches	Inches [mm]	21.85 [555]
Height - Inches	Inches [mm]	32.95 [837]
Dry Weight	lbs [kg]	603 [274]

### PTO System

Flywheel	-	SAE #4
Flywheel Housing	-	SAE #4 (Depth 158)
Gear Case	-	with 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	-	Puller
Fan Diameter	Inches [mm]	16.9 [430]
Number of Blades	-	8
Fan Pulley Diameter	Inches [mm]	5.1 [130]
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