3TNV76

Engine Technical Data

Revision: 0

	Unit	3TNV76-GGE	3TNV76-HGE
General Data			
Number of Cylinders	-	3	
Engine Type	-	Inline, Water-Cooled, 4 Stroke Diesel	
Bore x Stroke	mm x mm	76x82	
Total Displacement	cc	1.116	
Combustion type	-	Indirect Injection	
Aspiration	-	Natural Aspiration	
Valves per Cylinder	-	2	
Compression ratio	-	23.5	
Firing Order	-	1-3-2	
Performance Data			
Net Intermittent Power	HP [kW] / rpm]	12.1 [9.0]/1500, 14.3 [10.7]/1800	22.1 [16.5]/3000, 26.1 [19.5]/3600
Net Continuous Power	HP [kW] / rpm]	11.0 [8.2]/1500, 13.1 [9.8]/1800	20.2 [15.1]/3000, 23.7 [17.7]/3600
Net Max Torque	ft-lb [Nm]/rpm	-	-
Low Idle Speed	rpm	1200+/-25	1500+/-25
High Idle Speed	rpm	1900+/-25	3770+/-25
Physical Data			
Direction of rotation	-	Counter Clockwise (view from flywheel)	
Length - Inches	Inches [mm]	22.3 [567]	
Width - Inches	Inches [mm]	16.8 [427]	
Height - Inches	Inches [mm]	23.7 [601]	
Dry Weight	lbs [kg]	271 [123]	
PTO System			
Flywheel	-	SAE #5	
Flywheel Housing	-	SAE #5 (124 mm Depth)	
Gear Case	-	without SAE Hydraulic Pump Flange	
Lubrication System			
Inclination, Continuous	degrees	25	25
Inclination, 3 minutes Max.	degrees	30	30
Lubrication Oil Filter Type	-	Paper Element	
Oil Capacity, Effective	Liters	1.6	2.1
Total System Capacity	Liters	3.5	4.4
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]	13.2 [335]	
Number of Blades	-	6	
Fan Pulley Diameter	Inches [mm]	3.9 [100]	
Crank Pulley Diameter	Inches [mm]	4.3 [110]	
Fuel System			
Fuel Filter Type	-	Paper Element	
Fuel Injection Pump Type	-	Inline 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 (Pull Coil Timer: 1 sec.)	
Alternator	-	12V-40A	
Starting Aid Device	-	Glow Plug, 12V	
Standard pre-heat time	Seconds	3	
Starting Motor Type	-	Conventional	
Starting Motor Power	kW	1.1 ± 0.3	