

TECHNICAL SPECIFICATION OF NEW SV1 ENGINE (8.0HP-1500/WC)

SR.NO	DESCRIPTION	UNIT	VALUE
1	BORE	mm	87.5
2	STROKE	mm	110
3	CUBIC CAPACITY	Lits	0.661
4	NUMBER & ARRANGEMENT OF CYLINDER	-	1-Vertical
5	WORKING CYCLE	-	4-Stroke Diesel
6	COMBUSTION PRINCIPLE	-	Compression Ignition
7	COMPRESSION RATIO	-	17.5:1
8	DIRECTION OF ROTATION (LOOKING FROM FWE)	-	Clockwise
9	RATED SPEED	rpm	1800
10	COOLING SYSTEM	-	Water Cooled
11	FUEL TIMING AT 2200 rpm(BY SPILL CUT OFF)	Deg BTDC	23
12	OVERALL DIMENSION		
	LENGTH	mm	617
	WIDTH	mm	504
	TOTAL HEIGHT	mm	877
13	WEIGHT OF STANDARD ENGINE	kg	178
14	POWER RATING AS PER IS: 10001		
	1. CONTINUOUS	HP/RPM	8/1500
15	GOVERNING	Class(%)	B1(8)
16	SFC OF WELL RUN ENGINE	g/kw-h	251 +5%
		g/bhp-h	185 +5%
17	LUBRICATION SYSTEM	-	Forced Feed System
18	LUB OIL PUMP	-	Plunger Pump
19	Fuel Tank	Lit	11.5
20	SUMP CAPACITY (Max.)	Lit	3.7
21	L.O.CONSUMPTION	-	Max. 0.5% of SFC
22	BIS / ISI	Yes	IS:11170
23	Air Cleaner	Yes	Oil Bath Type
24	Silencer	Yes	Paper Pot Type

Technical Specifications of pumps with New AK65 engines

Pumpset Specs	Pump Model		VA4+
	Pump Type		Non Self Priming
	Suction Delivery Type (BSP-Inch) / (mm)		4"x4"/100X100
	Rated Discharge (lps)		28
	Rated Head (mtr)		15
	Head Range (mtr)		8.0-15.0
	Discharge range (lps)		37.5-23
	Impeller Dia (mm)		184
	Efficiency (%)		72
	BIS / ISI Certification 		IS:6595
	Suitable for Engine Rated HP (KW)		8 (5.9)
	Rated Engine Speed RPM		1800

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