



## ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	JOHN DEERE 4045HFS73 , 4-strokes, Turbo , Air/Water SC 4 X
	Cylinder Arrangement	L
	Displacement	4.5L [274.6C.I.]
	Bore and Stroke	127mm [5.0in.] X 106mm [4.2in.]
	Compression ratio	17 : 1
	Rated RPM	1500 Rpm
	Piston Speed	6.35m/s [20.8ft./s]
	Max. stand by Power at rated RPM	103kW [138BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	N/A
Governor : type	ELEC	
EXHAUST SYSTEM	Exhaust gas flow	N/A
	Exhaust temperature	N/A
	Max back pressure	750mm CE [30in. WG]
FUEL SYSTEM	110% (Stand By power )	26.54L/h [7.0gal/hr]
	100% (of the Prime Power)	23.78L/h [6.3gal/hr]
	75% (of the Prime Power)	18.00L/h [4.8gal/hr]
	50% (of the Prime Power)	12.39L/h [3.3gal/hr]
	Max. fuel pump flow	N/A
OIL SYSTEM	Total oil capacity w/filters	33L [8.7gal]
	Oil Pressure low idle	1.38bar [20.0psi]
	Oil Pressure rated RPM	2.75bar [39.8psi]
	Oil consumption 100% load	0.06L/h [0.0gal/hr]
	Oil capacity carter	32L [8.5gal]
THERMAL BALANCE	Heat rejection to exhaust	77.88kW [4428Btu/mn]
	Radiated heat to ambient	12.56kW [714Btu/mn]
	Heat rejection to coolant	N/A
AIR INTAKE	Max. intake restriction	300mm CE [12in. WG]
	Engine air flow	125.00L/s [265cfm]
COOLANT SYSTEM	Radiator & engine capacity	11.9L [3.144gal]
	Max water temperature	N/A
	Outlet water temperature	N/A
	Fan power	5.67 kW
	Fan air flow w/o restriction	N/A
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Gencool
	Thermostat	82-94 °C
GAS SYSTEM	HC	0.06 g/KW.h
	CO	0.72 g/KW.h
	Nox	5.47 g/KW.h
	PM	0.14 g/KW.h