



ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	JOHN DEERE 4045TFS70 , 4-strokes, Turbo , 4 X
	Cylinder Arrangement	L
	Displacement	4.5L [274.6C.I.]
	Bore and Stroke	127mm [5.0in.] X 106mm [4.2in.]
	Compression ratio	
	Rated RPM	1500 Rpm
	Piston Speed	6.35m/s [20.8ft./s]
	Max. stand by Power at rated RPM	60.5kW [81BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	N/A
Governor : type	MECA	
EXHAUST SYSTEM	Exhaust gas flow	N/A
	Exhaust temperature	N/A
	Max back pressure	750mm CE [30in. WG]
FUEL SYSTEM	110% (Stand By power)	16.09L/h [4.3gal/hr]
	100% (of the Prime Power)	14.75L/h [3.9gal/hr]
	75% (of the Prime Power)	11.26L/h [3.0gal/hr]
	50% (of the Prime Power)	7.41L/h [2.0gal/hr]
	Max. fuel pump flow	N/A
OIL SYSTEM	Total oil capacity w/filters	N/A
	Oil Pressure low idle	0bar [0.0psi]
	Oil Pressure rated RPM	N/A
	Oil consumption 100% load	0.04L/h [0.0gal/hr]
	Oil capacity carter	N/A
THERMAL BALANCE	Heat rejection to exhaust	45.74kW [2601Btu/mn]
	Radiated heat to ambient	7.38kW [420Btu/mn]
	Heat rejection to coolant	39.00kW [2218Btu/mn]
AIR INTAKE	Max. intake restriction	300mm CE [12in. WG]
	Engine air flow	83.33L/s [177cfm]
COOLANT SYSTEM	Radiator & engine capacity	8.5L [2.246gal]
	Max water temperature	N/A
	Outlet water temperature	N/A
	Fan power	3.33 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	0.47 g/KW.h
	CO	1.04 g/KW.h
	Nox	5.41 g/KW.h
	PM	0.3 g/KW.h