Agriculture
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N45

N45 MST
74 kW (101 HP) @ 2200 rpm
Stage IIIA / Tier 3

AGRICULTURAL

SPECIFICATIONS

Thermodynamic Cycle		Diesel 4 stroke
Air Handling		TCA
Arrangement		4L
Bore x Stroke	millimeters	104 x 132
Total displacement	liters	4.5
Valves per cylinder	number	2
Cooling System		liquid
Direction of Rotation (viewed facing flywheel)		CCW
Compression ratio		17.5:1
Injection System		M
EGR		-

PERFORMANCES

Rated power [*]	kW (HP) @ rpm		74 (101) @ 2200
Peak torque	Nm (kgm) @ rpm		430 (44) @ 1250
High idle speed	rpm		2430
Low idle speed	rpm		800
Minimum starting temperature without auxiliaries		°C	-15°
Oil and oil filter maintenance interval for replacement		hours	600

STANDARD CONFIGURATION

Flywheel housing	type		SAE 3 - (wide / narrow) - cast iron
Flywheel size	inch		11" ½
Intake manifold location			turbocharger inlet
Exhaust manifold location			right side / frontward
Turbocharger			Fixed Geometry Turbo
Turbocharger location			middle high / right side
Fan transmission ratio			1.4:1
Distance between fan - crankshaft centers		millimeters	X=0 Y=296
Fuel filter		number	single cartridge - left side
Fuel prefilter			optional
Fuel Pump			mechanical rotary pump
Oil filter		number	single cartridge - right side
Oil sump	suspended sheet steel / front sump, 35°angularity limits continuous in all directions		
Oil vapours blow-by circuit			on valve cover
Oil heat exchanger			incorporated into the block
Oil filler			timing cover
Starter			12 V - 3 kW
Alternator			12 V - 90 A with W contact
Engine stop device			incorporated in the pump
Wiring harness			-
Painting color			grey
Lift Pump			mechanical - left side
Hydraulic steering pump		liters/min	-
Maximum torque available from crankshaft pulley		Nm	-

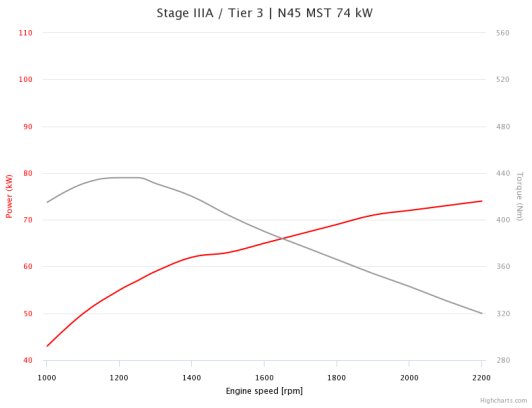
WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	807 x 615 x 972
Dry Weight	Kg	390

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS

IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

POWER & TORQUE



NOT INCLUDED IN STANDARD CONFIGURATION

Power Take Off (PTO)		-
PTO - transmission ratio		1.03:1
PTO - maximum available torque		- 150 Nm (11 teeth) SAE B 240 Nm (13 teeth) -
Battery - minimum capacity recommended	Ah	180 Ah (12 V)
Battery - minimum cold cranking capacity recommended	Ah	12 V - 950 Ah

LEGEND

Arrangement
L (in line)
V (90° "V" configuration)

Air Handling
TCA (Turbocharged with aftercooler)
TC (Turbocharged)
NA (Naturally Aspirated)

Turbocharger
WG (Wastegate)
VGT (Variable Geometry Turbocharger)
TST (Twin Stage Turbocharge)

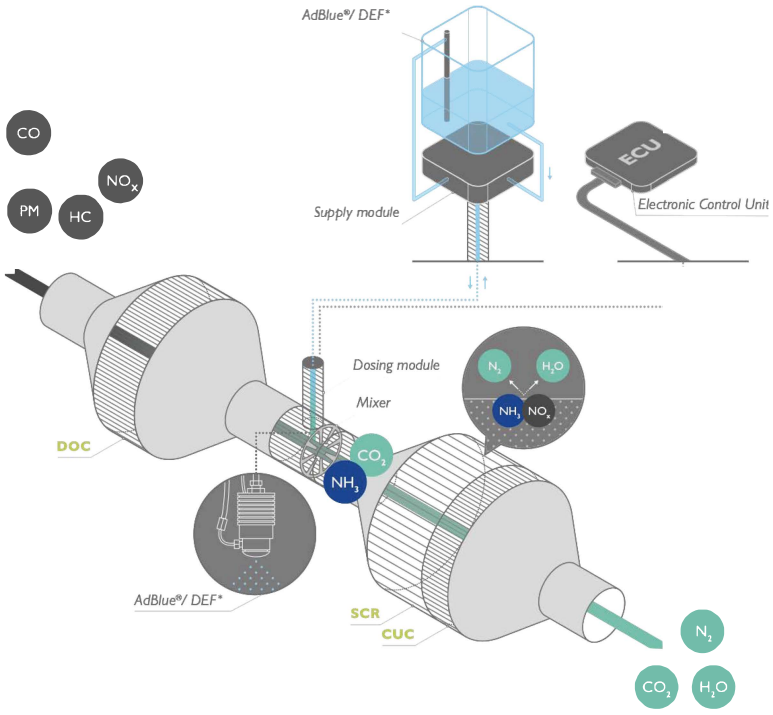
Injection System
M (Mechanical)
ECR (Electronic Common Rail)
EUI (Electronic Unit Injector)
MPI (Multi Point Injection)

Exhaust System
EGR (Exhaust Gas Recirculation)
SCR (Selective Catalytic Reduction)

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

AFTER TREATMENT SYSTEM



ELEMENT

1 **DIESEL OXIDATION CATALYST**

2 **ADBLUE® / DEF INJECTION**

3 **SELECTIVE CATALYTIC REDUCTION ON FILTER**

4 **CLEAN-UP CATALYST**

LEGEND

PM Particulate Matter
HC unburnt Hydrocarbons
NO_x Nitrogen Oxides
CO Carbon Monoxide
N_2 Nitrogen
CO_2 Carbon Dioxide
H_2O Water
AdBlue®/ DEF = $CO(NH_2)+ H_2O$

AGRICULTURAL

LEGEND

Arrangement	Air Handling	Turbocharger	Injection System	Exhaust System
L (in line)	TCA (Turbocharged with aftercooler)	WG (Wastegate)	M (Mechanical)	EGR (Exhaust Gas Recirculation)
V (90° "V" configuration)	TC (Turbocharged)	VGT (Variable Geometry Turbocharger)	ECR (Electronic Common Rail)	SCR (Selective Catalytic Reduction)
	NA (Naturally Aspirated)		EUI (Electronic Unit Injector)	
		TST (Twin Stage Turbocharge)	MPI (Multi Point Injection)	

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