N45 ENT

89 kW (121 HP) @ 2200 rpm

Stage IV / Tier4 Final

CONSTRUCTION

SPECIFICATIONS

Thermodynamic cycle		Diesel 4 stroke
Air Handling		TCA
Bore x Stroke	millimeters	104 x 132
Total displacement	liters	4.5
Valves per cylinder	number	4
Cooling System		liquid
Direction of Rotation (viewed facing flywheel)		CCW
Compression ratio		17:1
Injection System		ECR
EGR		-

PERFORMANCES

Rated power [*]	kW (HP) @ rpm		89 (121) @ 2200
Peak torque	Nm (kgm) @ rpm		549 (56) @ -
High idle speed	rpm		-
Low idle speed	rpm		±750
Minimum starting temperature without auxiliaries		°C	-15°
Oil and oil filter maintenance interval for replacement		hours	500

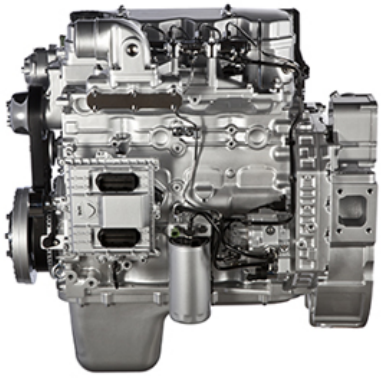
STANDARD CONFIGURATION

Flywheel housing	type	SAE 3 - cast iron
Flywheel size	inch	11" ½
Intake manifold location		high / left side
Exhaust manifold location		high / right side / middle flange
Turbocharger		Fixed Geometry Turbo
Turbocharger location		high / right side / back exhaust
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		-
Fuel Pump		ɒorated into the high pressure pump
Oil filter	number	single cartridge - right side
Oil sump		steel-front sump-elastic-35° limits continuous in all directions
Oil vapours blow-by circuit		ıt filter mounted on flywheel housing
Oil heat exchanger		oil / water engine cooler
Oil filler		on valve cover-front position
Alternator		24 V - 70 A
Hydraulic steering pump		-
Wiring harness		engine harness connected to ECU
Painting color		grey
Starter		12V - 3kW / 24V - 4kW
Maximum torque available from crankshaft pulley	Nm	-
Engine stop device		-

WEIGHT AND DIMENSIONS

Dimensions	LxWxH (mm)	16 x 687 x 1049

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



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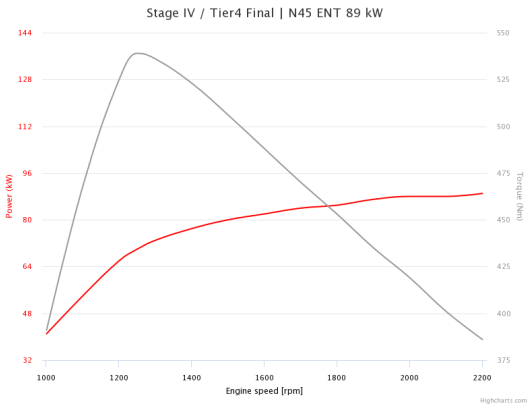
POWER & TORQUE



NOT INCLUDED IN STANDARD CONFIGURATION

Power Take Off (PTO)		-
PTO - transmission ratio		1.03:1
PTO - maximum available torque		SAE A 100Nm - 150Nm SAE B 240Nm -
Battery - minimum capacity recommended	Ah	130 Ah (24 V)
Battery - minimum cold cranking capacity recommended	Ah	24 V - 500 Ah

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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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

AFTER TREATMENT SYSTEM

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CONSTRUCTION

LEGEND

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