



Brochure main description		@1500rpm	@1800rpm
Application & simbol		Power G	Seneration
Engine identication main		N	67
Engine identication rating	kW	244	263
Engine features		PG G	G-Drive
Emission feature		RoHS2 Direct	ive 2011/65/EU
Main characteristics		@1500rpm	@1800rpm
Emission certification		RoHS2 Direct	ive 2011/65/EU
Commercial code (for order)		NEF67T	E8P.S500
Other Commercial code			-
Technical code (original plant engine code, on engine block)		F4HFA6	15A*D001
Technical homologation code		F4HFA	615A*D
Stand-by power (gross) [mech]	kW	244	263
Specific power	kW/I	36,5	39,3
Electric commercial power (estimation alternator power output)	kWe [kVA]	223	237
BMEP	bar	28,6	25,9
Oil consumption on mission (average)	% fuel comsumption	(),3
Cycle		diesel	4 stroke
Air charging system pattern		Turbocharge	ed aftercooled
Number of cylinder			6
Configuration (cylinder arrangement)		in	line
Bore	mm	1	04
Stroke	mm	132	
Stroke / Bore		1,27	
Displacement	1	6,7	
Unit Displacement	I	1	,12
Bore pitch	mm	1	20
Valves per cylinder			4
Cooling system type		lic	juid
Direction of rotation (looking flywheel)		anti-cl	ockwise
Compression ratio		16.	5 : 1
Firing order			- 6 - 2 - 4
Injection type			nic common rail
Engine brake configuration			-
Be10		80	00 h
Cylinder Head			
Single / Multiple		sir	ngle
Material		cas	t iron
Head air circulation		cros	sflow
Intake valve dia.	mm	;	33
Exhaust valve dia.	mm	;	33
Camshaft			
Layout		0	HV
Cam carrier		on inle	et valve
Material and Heat treatment		chilled	cast iron
Valve train		mechanical ta	ppet & push rod





Main characteristics		@1500rpm @1800rpm
Drivetrain (timing system)		gear tappet
Valve actuation	tappet & push rod	
Variable valve actuation system		
Cylinder block (crankcase)		No Structural
Material of cylinder block		cast iron
Type of liners		block liners
Liners replaceable; (slip fit or interference fit)		
Bearing caps		machined cast iron
Crankcase Ventilation		closed
Oil separator		coalescent filter
Crankshaft & counterweights		
Material		forged Steel
Acceptable Inertia (clutch)	kgm²	0,71
Balancing		no
Turbocharger & EGR system		
Turbocharger type		fixed geometry with wastegate valve
Turbocharger supplier		Cummins
Turbocharger control		WG pneumatic control
Pressure after turbocharger compressor	mbar	2000
Max turbine inlet temperature	°C	730
Temperature after turbocharger compressor	°C	
Method of cooling the turbocharger		oil lubricated
Turbo protection devices		
EGR type		internal EGR
EGR control strategy		<u>.</u>
EGR recirculation rate		_
Valve		-
Cooler		
Control		-
Air mass measurement		-
Exhaust flap		
Exhaust flap supplier		_
Actuation type		-
Exhaust flap cooling		
Switchability (1500-1800 rpm)		
Emission level 1500 rpm		Stage IIIA
Emission level 1800 rpm		Tier3
Front power take off		TICIO
PTO type		
Max torque available from front of crankshaft (no		_
side load)	Nm	-
Power take off on gear train		
SAE A 9 teeth	Nm	-
SAE A 11 teeth	Nm	-
SAE B 13 teeth	Nm	-
SAE B (DIN 5482)	Nm	-
SAE 2B 15 teeth(ANSI B92,1)	Nm	-
References values		
Engine dimension LxWxH (indicative values)	mm	1156 x 699 x 1031





Main characteristics		@1500rpm	@1800rpm
G-Drive Dimension LxWxH (indicative values)	mm	1784 x 787 x 1203	
Max permissible engine inclination	deg	23	
Engine Weight - Dry (no fluids, value purely indicative)	kg	550)
Engine Weight - Wet (with fluids, value purely indicative)	kg	570)
G-Drive Weight - Dry (no fluids, value purely indicative)	kg	62	7
G-Drive Weight - Wet (with fluids, value purely ndicative)	kg	670)
Center of gravity (FFOB or RFOB according to picture, standard engine layout)	mm		
Principal moment of inertia (reference on center of gravity ,standard engine layout)	kgm²		
Principal moment of inertia (reference matrix based on center of gravity, standard engine layout)	kgm²		
Center of gravity (FFOB or RFOB according to picture, standard IPU/G-Drive layout)	mm	-6,88; 177,	5; 408,8
Principal moment of inertia (reference on center of gravity ,standard IPU/G-Drive layout)	kgm²	3,84e+01; 9,06e	+01; 1,06e+02
Principal moment of inertia (reference matrix based on center of gravity, standard IPU/G-Drive layout)	kgm²	3,84e+01; 9,06e	+01; 1,06e+02
Mass moment of inertia - rotating components (excluding flywheel)	kgm²	0,3	
Mass moment of inertia - standard flywheel	kgm²	0,70	08
Bending moment on the flywheel housing	Nm		
Flywheel housing SAE sizing			
Flywheel SAE sizing			
Bending moment on PTO	Nm		
Max static mounting surface load	N		
Crankshaft thrust bearing pressure limit			
Intermittent load:	MPa	N/A	
Continuous load:	MPa	15	
Rear main bearing load	MPa	N/A	4
Max bending moment available from front of the crankshaft:			
0 deg	Nm	100	
90 deg	Nm	270	
180 deg	Nm	270)
Environmental operating conditions			0
Max altitude for declared performances	m °C	100	
Max ambient temperaturefor declared performances Min guaranteed temperature for cold start w/o any	°C	40 - 19	
aid (stand alone engine) Min guaranteed temperature for cold start with grid heater (stand alone engine)	°C	- 29	
Min guaranteed temperature for cold start with grid heater and block heater (stand alone engine)	°C	- 30	
Time preheating for manifold heater	s	-3 °C: 0; -3	30 °C 21
Time post heating for manifold heater	s	-3 °C: 0; -2	
Low idle continuous operation time (reccomended)	h	3	
Engine performance			
Continuous power (gross) [mech]	kW	179	193,6
Prime power (gross) [mech]	kW	222,3	239,5
Stand-by power (gross) [mech]	kW	244,5	263,5





Main characteristics		@1500rpm	@1800rpm
Fan consumption [mech]	kW	5	8,6
Continuous power (net) [mech]	kW	172,8	183
Prime power (net) [mech]	kW	217,3	230,9
Stand-by power (net) [mech]	kW	239,5	254,4
Typical generator output		223	237
Generator available power @ Prime power	kW	196	208
Generator available power @ Stand by	kW	216	229
Power limitation according to ambient conditions			
Ambient temperature above xx°C	%/5°C (xx°C)	2	
Altitude > 1000 < 3000m above sea level	%/500m	3	
Altitude > 3000m above sea level	%/500m		6
Power limitation due to safety protections			
Max water temperature (Switch on of the MIL lamp)	°C	1	02
Start derating: switch on of the warning coolant temperature lamp (amber color)	°C	1	06
Max derating (50% derating) switch on of the high coolant temperature lamp (redcolor)	°C	1	10
Altitude level: gradual reduction of transient response by smoke map correction from	m	20	000
Fuel temperature	°C	7	0
Intake manifold air temperature	°C		50
ATS Max gas inlet temperature	°C		-
Max allowed exhaust temperature	°C	740 °C -	760 (peak)
Turbine overheating protection	°C	7	00
Turbine overspeed protection	rpm	140000	
Oil temperature protection	°C	125	
Oil pressure protection (min engine rpm)	bar		
Fuel System			
Fuel density	kg/l	0,	84
Injection system type		electronic o	common rail
Injection pump manufacturer		Во	sch
Injection model type		High Pres	sure Pump
Injection model pump		Bosch	CP3.3
Injection pressure	bar	16	600
Injector		Bosch C	RIN2-16
Injector installation (sleeve, sealing flat or conical)			eve
Injector nozzle		8 x	400
Engine fuel compatibility		see dedicated GOLD E	Book document on fluids
Feed pump on engine		integrated in high pressure pump	
Max fuel flow supply line	l/h	2	80
Nominal feed pressure	bar	0,5	5 - 1
Fuel filter		Multilayer Stratapore	
Fuel filter clogging sensor	bar	0,	09
Max continuous allowable fuel temperature (without derating)	°C	7	70
Max relative pressure at gear pump inlet	bar		
wax relative pressure at gear partip linet	har	- (0,5
Min relative pressure at gear pump inlet	bar	- 0,5 0,2	
	bar bar	0	,2
Min relative pressure at gear pump inlet			,2 ,2





Fuel System			
Max fuel flow return line	kg/h	53,6	
Min fuel tank venting requirement	m³/h	0,4	
Prefilter / Water separator micron size	μm	20 - 4	10
Air Intake System		@1500rpm	@1800rpm
Aftercooling system type		air to	
nterstage cooling type		-	
RoA (Temperature raise between ambient and inlet to	°C	≤ 25	
engine	°C		,
Filter air intake temperature (warm air ricirculatuion)	°C		
Max intake manifold temperature Compressor inlet pressure (with new air filter)	hPa	50 ≥ - 4	F
Compressor inlet pressure (with dirty air filter)	hPa	≥-4	
Air filter type	IIFa	dry	<u> </u>
oads on turbocharger on compressor intake	ka	0	
Loads on turbocharger on compressor outlet	kg kg	0	
Charge air flow (max)	kg kg/h	923	1093
Strange all new (max)	Ng/II	020	1000
Exhaust System		@1500rpm	@1800rpm
Max back pressure (after exhaust flap) @ rated power with clean system	hPa	80	
Max mechanical load on turbine flange	kg	0	
Max ambient temperature for exhaust flap actuator	°C	-	
Max exhaust temperature After Treatment System	°C	-	
Max exhaust flow rate	kg/h	972 (1500rpm) ; 1147 (1800rpm)	
Energy to exhaust	kW	167,7	199,4
Affau Trackmant Custom			
After Treatment System			
After Treatment System		-	
After Treatment System POC DPF		-	
After Treatment System POC DPF DOC		-	
After Treatment System POC DPF DOC SCR		-	
After Treatment System POC DPF DOC SCR Urea Dosing System		-	
After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer		- - - - -	
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After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Oil sump capacity, max level Oil sump capacity, min level	·	- - - - - - - 12,7	7
After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Dil sump capacity, max level Dil sump capacity, min level	·	- - - - - - - 12,7	7
After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Oil sump capacity Oil sump capacity, max level Oil system capacity, min level Oil system capacity including filter Oil pump type	·	- - - - - - - 12,7 12,7 9,1	7
After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Dil sump capacity Dil sump capacity, max level Dil system capacity, min level Dil system capacity including filter Dil pump type Dil pump drive arrangement			, , ump
After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Dil sump capacity Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type Dil pump drive arrangement Min oil pump flow	l I I		, , ump
After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Dil sump capacity Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type Dil pump drive arrangement Min oil pump flow Max oil pump flow (@rated speed)	I I I I/min		ump gear
After Treatment System POC DPF DOC SCR Urea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Oil sump capacity Oil sump capacity, max level Oil sump capacity, min level Oil system capacity including filter Oil pump type Oil pump type Oil pump drive arrangement Min oil pump flow Max oil pump flow (@rated speed) Min oil pressure @ low idle (engine oil temp at 120°C) Min oil pressure @ rated speed (engine oil temp at	l I I		ump gear





ubrication System lax oil pressure @ rated speed (engine oil temp at	kPa (bar)	500 (5)
20°C)	. ,	()
Max oil temperature @ full load (in main gallery)	°C	< 120
Max oil pressure peak on cold engine	bar	15
Dil cooler type		water cooled
Transducer for indicating oil temperature and pressure		signal from ECU
Max engine angularity - longitudinal / transversal (std bil pan)	deg	23 / 23
Allowed engine gradability during installation on vehicle	deg	0
Oil servicing intervals	h	see dedicated GOLDBook document on fluids
Oil filter type		cartridge
Oil filter capacity	l l	1
Max oil content admitted in blow by gas (after filter)	g/h	0,3
Oil for cold condition mission (T° ambient < -25°C)		see dedicated GOLD Book document on fluids
Cooling system		@1500rpm @1800rpm
Type (water to water or air to water)		air to water
Recommended coolant		see dedicated GOLD Book document on fluids
Min radiator cap pressure	kPa	0,7
Warnnig setting first threshold	°C	103
Max additional restriction (cooling system)	Pa	N/A
Air to boil (prime power, open genset configuration). For further information see GB document	°C	57-60
Air to boil (stand by, open genset configuration). For further information see GB document	°C	52-56
EGR Cooler water flow (for ΔT=6°C)	l/s	-
LP-CAC water flow (for ΔT=6°C)	l/s	
Fan		
Diameter	mm	685
Number of blades		12
Drive ratio		1,41 : 1
Speed		2100 rpm (1500rpm); 2520 rpm (1800rpm)
Air flow		3,4 kg/s (1500rpm); 4,1 kg/s (1800rpm)
Power consumption		5 kW (1500rpm) ; 8,5 kW (1800rpm)
Radiator		
Core dimensions LxWxh	mm	900 x 708 x 52
Dry weight	kg	65
Radiator coolant capacity	1	8
Optimum coolant temperature range @engine out (50% glycol)	°C	83 ÷ 99
Engine Water pump Type		centrifugal pump
Engine water pump drive		driven by belt
Coolant capacity (engine only)		12,6
Coolant capacity (radiator & hoses)	I	15
Thermostat type		wax type
Thermostat position		on cylinder head
Thermostat opening / fully open temperature	°C	(76 - 80) / 95
Recommended coolant circuit pressurization range (relative)	hPa	N/A
Coolant engine pressure outlet – inlet (delta pressure, open thermostat, high idle conditions)	hPa	< 0,2





Cooling system		@1500rpm	@1800rpm
Coolant engine pressure outlet – inlet (only with remote thermostat, ex. retarder)	hPa	-	
Min coolant pressure (no pressure cap and thermostat closed)	hPa	1	
Coolant water pump inlet pressure (water temperature 60-100°C)	hPa	0	,5
Coolant flow to radiator @rated speed	l/h	N	/A
Min coolant expansion space (% total cooling system capacity)	%	Expansion Tank Volume (and max level) must also coolant thermal expansion to avoid coolar high temperature conditions. Thi can be checke Power test	
Max coolant flow to accessories @ rated speed from cab heater	l/min	N	/A
Engine out coolant to ambient @rated speed	delta °C		-
Engine out coolant to ambient @torque speed	delta °C		-
Charge air cooler outlet to ambient @max rpm - CAC dT	delta °C		-
Pump water flow	l/min	154	185
Electrical, Electronic and Control Systems			
System voltage	V	12 -	- 24
Engine control unit		MD10	E101
ECU software		P10	603
ECU Vehicle connection		via body comput	er with CAN line
ECU operating range	°C	- 40 -	÷ +85
Temperature of ECU case for <5' after power up	°C	85	
ECU rated continuous temperature	°C	80	
ECU communication protocol		SAE J1939 for engine control, ISO14229 (UE engine diagnosis.	
Min power supply for ECU operation	V	9	
Max power supply for ECU operation	V	32	
Battery wire connection resistance value @20°C (from battery to ECU)	mΩ	Ω RT30= 8,1 - 16,7 m Ω (+20°C; PE=0%); RT	
Diagnostic connector type		On board, Deutch Connector (11 po	
Min cranking speed TDC @-30°C	rpm	rpm 90	
Average cranking speed	rpm	rpm 130	
N° tooth pinion/crown gear		10/	125
Min battery voltage	V	(24V a vuoto) 18	
Mean battery voltage	V	(24V a vuoto) 18,4	
Min battery current	Ah	min 44, 357 CCA (or 50342)	
Mean battery current	Ah	max 110, 765 CCA (or 50342)	
Max starting circuit resistance (to starter)	mΩ	RT30= 8,1-16,7 mΩ (+20°	C; PE=0%); RT50= < 85
Cold starting			
Without air preheating	°C	- 15	
With air preheating (if available)	°C	C - 25	
Emission gaseus and particulales			
NOx (Oxides of nitrogen) [NRSC]	g/kWh	see homologa	tion certificate
HC (Hydrocarbons) [NRSC]	g/kWh	see homologa	tion certificate
NOX+HC [NRSC]	g/kWh	see homologa	tion certificate
CO (Carbon monoxide) [NRSC]	g/kWh	see homologa	tion certificate
PM (Particlutes) [NRSC]	g/kWh	see homologa	tion certificate





Emission gaseus and particulales			
CO2 (Carbon Dioxide) [NRSC]	g/kWh	see homologa	ation certificate
NOx (Oxides of nitrogen) [NRTC]	g/kWh	see homologa	ation certificate
HC (Hydrocarbons) [NRTC]	g/kWh	see homologa	ation certificate
NOX+HC [NRTC]	g/kWh	see homologa	ation certificate
CO (Carbon monoxide) [NRTC]	g/kWh	see homologa	ation certificate
PM (Particlutes) [NRTC]	g/kWh	see homologa	ation certificate
CO2 (Carbon Dioxide) [NRTC]	g/kWh	see homologa	ation certificate
Maintenance			
Oil drain interval		see dedicated GOLD E	Book document on fluids
Oil filter change		see dedicated GOLD E	Book document on fluids
Oil refilling time			ate oil refill necessity
Approved engine oil specifications			Book document on fluids
CCV filter change			
Fuel filter change		see dedicated GOLD F	Book document on fluids
Fuel pre-filter change			Book document on fluids
Belt replacement			and the state of the sta
Valve lash check /adjustment			
AdBlue filter Change			-
DPF filter service			
Coolant change		see dedicated GC	LD Book document
000181111 011811190			
Engine Noise			
Overall sound pressure (engine only)	dBA	N	I/A
Overall sound pressure (with accessories only)	dBA	N	I/A
Exahust noise (w/o Muffler)	dBA	N	I/A
Noise spectrum (octave analysis performed at the position of maximum noise) - diagram	Table dB-Hz		
Step Load (for further information see GB document)		@1500rpm	@1800rpm
G1 (% of PrP)	%	60	73
G2 (% of PrP)	%	55	68
G3 (% of PrP)	%	49	59
G1 (% of PrP) [open flap]	%	-	-
G2 (% of PrP)[open flap]	%		_
G3 (% of PrP)[open flap]	%	-	-
G1 (% of PrP) [closed flap]		<u> </u>	-
G2 (% of PrP) [closed flap]	%	<u> </u>	-
G2 (% of PrP) [closed flap]	% %	<u> </u>	-
Removal load (G1)	% %	<u> </u>	-
Removal load (G2)	% %	100	
Removal load (G3)	<u> </u>	-	100
	% %		
Emergency (xxx)	<u> </u>	N/A N/A	N/A N/A
Emergency (xxx)			
Emergency (xxx)	%	N/A	N/A
Maximum Rating Performance Data		@1500rpm	@1800rpm
Torque	Nm	1553	1395
101440			

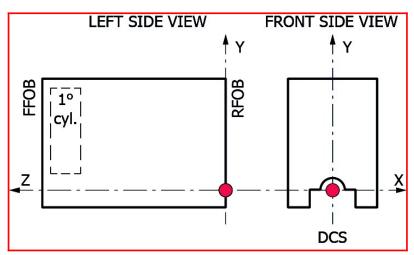




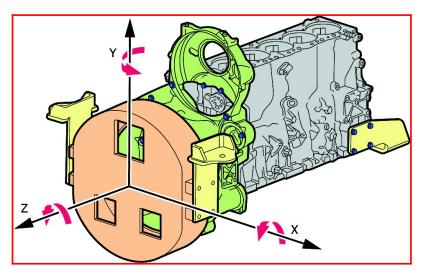
Maximum Rating Performance Data		@1500rpm	@1800rpm
EGR Rate	%	-	<u> </u>
Fuel Flow	g/s	13,4	14,9
Fuel consumption (BSFC) (prime power)	(kg/h) [g/kWh]	(43.3) [198]	(46.9) [197]
Fuel consumption (BSFC) (stand by)	(kg/h) [g/kWh]	(48.1) [205]	(53.6) [203]
Fuel consumption (BSFC) (80% prime power)	(kg/h) [g/kWh]	(32.6) [195]	(37.5) [194]
Fuel consumption (BSFC) (50% prime power)	(kg/h) [g/kWh]	(20.9) [194]	(24.2) [195]
Fuel consumption (BSFC) (25% prime power)	(kg/h) [g/kWh]	(12,1) [217,2]	(13,6) [237,9]
AdBlue consumption (average on mission)	% of fuel cons	-	-
AdBlue consumption (prime power)	% of fuel cons	-	-
AdBlue consumption (stand by)	% of fuel cons	-	-
AdBlue consumption (80% prime power)	% of fuel cons	-	-
AdBlue consumption (50% prime power)	% of fuel cons	-	-
AdBlue consumption (25% prime power)	% of fuel cons	-	-
Exhaust Gas Flow	kg/h	270	318,6
	Ng/II	210	010,0
Design air handling system data		@1500rpm	@1800rpm
EGR flow	kg/h	-	-
EGR pressure	kPa	-	-
Boost pressure (compressor outlet)	kPa	N/A	N/A
Pressure drop on charge air cooling system	kPa	N/A	N/A
Max temperature after HP-Compressor	°C	N/A	N/A
Boost temperature (includes EGR effect)	°C	N/A	N/A
ATS back pressure	kPa	-	-
Exhaust Gas Temp between HP-TC	°C	N/A	N/A
Max Exhaust Gas Temp (after TC)	°C	N/A	N/A
Max admitted back pressure after SCR	kPa	-	-
Max admitted back pressure after TC	kPa	N/A	N/A
Power engine coolant without EGR & CAC (prime		TW/PA	11//3
power)	kW [kcal/kWh]		
Power engine coolant without EGR & CAC (stand by)	kW [kcal/kWh]	-	-
Power high Temperature EGR Cooler (engine water) (prime power)	kW [kcal/kWh]	-	-
Power high Temperature EGR Cooler (engine water) (stand by)	kW [kcal/kWh]	-	-
Power to coolant due to EGR LP-Circuit (prime power)	kW [kcal/kWh]	-	-
Power to coolant due to EGR LP-Circuit (stand by)	kW [kcal/kWh]	-	-
Total Power to coolant (prime power)	kW [kcal/kWh]	116,2	114
Total Power to coolant (stand by)	kW [kcal/kWh]	116	117
Total pump water flow	l/s	2,6	3,1
Radiator Coolant Flow (5% less if continuous	l/min	N/A	N/A
deareating system, coolant according to FPT norms)			
EGR Cooler water flow (for ΔT=6°C)	l/s	- N/A	- NI/A
LP-CAC water flow (for ΔT=6°C)	l/s	N/A	N/A
Power in CAC (air to air) (prime power)	kW [kcal/kWh]	33,3	35,4
Power in CAC (air to air) (stand by power)	kW [kcal/kWh]	33	36,6
Power Radiated	kW	11,8	13





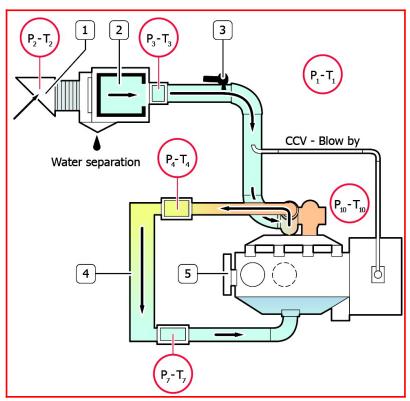


Principal Moment of Inertia

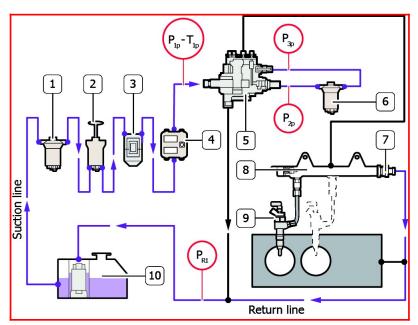


Components





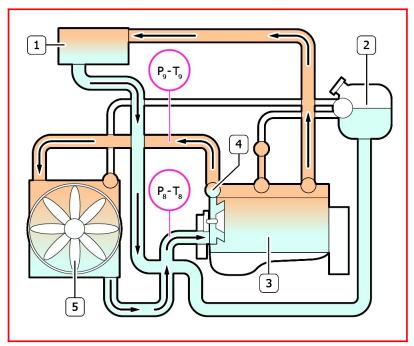
1. Snorkel 2. Air Filter 3. Humidity sensor 4. Intercooler



1.Inspection glass with strainer 2.Prime pump 3.Pre-filter with water separator 4.ECU 5.High Pressure pump 6.Fuel Filter 7.Overpressure valve 8.Common Rail 9.Injectors 10.Fuel tank







1. Heating element 2. Expansion tank 3. Engine 4. Thermostat 5. Radiator





ACRONYMS LIST

Acronyms	Description
-	Not Needed
2stTC	Two Stage Turbo (sequential)
Ag	Agricultural
ASC	Ammonia Slip Catalyst (same as CUC)
ATS	After Treatment System
BSFC	Brake Specific Fuel Consumption
CAC	Charge Air Cooler
CCDPF	Close Coupled DPF
CCV	Crankcase Ventilation
CE	Construction Equipment
CI	Cast Iron
CRS	Common Rail System
CRSN	Common Rail System NKW (Commercial vehicles)
cuc	Clean Up Catalyst for ammonia (same as ASC)
DAVNT	Dual Axis Variable Nozzle Turbine
DCS	Drawing Coordinate System
DI	Direct Injection
DOC	Diesel Oxidation Catalyst
DOHC	Double Over Head Camshaft
DPF	Diesel Particulate Filter
ECEGR	External Cooled EGR
ECU	Engine Control Unit
EEGR	External EGR
EGR	Exhaust Gas Recirculation
epWG	Electro pneumatic WG
eVGT	Electrical VGT
eWG	Electrical WG
FFOB	Front Face of Block
FGT	Fixed Geometry Turbocharger (no WG)
FIE	Fuel Injection System
HD	Heavy Duty
HLA	Hydraulic Lash Adjusters
IDI	Indirect Injection

Acronyms	Description	
iEGR	Internal EGR	
IPU	Industrial Power Unit	
ISC	Interstage Cooling	
LD	Light Duty	
LDCV	Light Duty Commercial Vehicles	
LH	Left Hand Side	
LWR	Laser Welded Rail	
MD	Medium Duty	
n/a	Not Available	
NA	Natural Aspirated	
NS	Non Structural	
ОНУ	Over Head Valves	
ОРТ	Option	
PCP	Peak Cylinder Pressure	
РТО	Power Take Off	
RFOB	Rear Face of Block	
RH	Right Hand Side	
S	Structural	
SAPS	Sulphated Ash, Phosphorus, Sulphur	
SCR	Selective Catalytic Reduction catalyst	
SCRoF	SCRon filter	
SOHC	Single Over Head Camshaft	
STD	Standard	
TC	Turbocharged	
TCA	Turbocharged, Charge Air Cooled	
ТНМ	Thermal Management	
UFDPF	Under Floor DPF	
UQS	Urea Quality Sensor	
VE	Bosch Distributor Mechanical Pump	
VFT	Variable Flow Turbine	
VGT	Variable Geometry Turbocharger	
WG	Waste Gate Turbocharger	
XPI	Extra high Pressure Injection (Scania, Cummins)	

Unit of misure according to international system of unit. Engine accessories and Options available on Option List. All data is subject to change without notice.

UPDATING

Revision	Description	Date
Revision 2.0_Jul 2021		July/2021
Revision 3.0_Mar 2022		March/2022