



Brochure main description		@1500rpm	@1800rpm
Application & simbol		Power Ge	eneration
Engine identication main		Ne	67
Engine identication rating	kW	150	175
Engine features		PG G	Drive
Emission feature		Stag	e V
Main characteristics		@1500rpm	@1800rpm
Emission certification		Stag	
Commercial code (for order)		N67TEV	
Other Commercial code		F4HGE	
Technical code (original plant engine code, on engine			
block)		F4HGE61	5C*V001
Technical homologation code		F4HGE	615C*V
Stand-by power (gross) [mech]	kW	150	175
Specific power	kW/I	22,3	26,1
Electric commercial power (estimation alternator power output)	kWe [kVA]	135,2 [169]	158 [197,5]
BMEP	bar	17,9	17,4
	% fuel	-	<u>`</u>
Oil consumption on mission (average)	comsumption	0,	
Cycle		diesel -	
Air charging system pattern		Turbocharge	
Number of cylinder		6	
Configuration (cylinder arrangement)		in li	
Bore	mm	10	
Stroke	mm	13	
Stroke / Bore		1,2	
Displacement	1 6,7		
Unit Displacement	l	1,	
Bore pitch	mm	12	
Valves per cylinder		4	
Cooling system type		liqu	
Direction of rotation (looking flywheel)		anti-clo	
Compression ratio		17	
Firing order		1 - 5 - 3 -	
Injection type		direct - electron	ic common rail
Engine brake configuration		<u>.</u>	
Be10		800	
Cylinder Head		N/	
Single / Multiple		sin	-
Material		cast	
Head air circulation		cross	
Intake valve dia.	mm	3	
Exhaust valve dia.	mm	3	
Camshaft		N/	
Layout		OH	
Cam carrier		n	
Material and Heat treatment Valve train		chilled o	





Main characteristics		@1500rpm @1800rpm	
Drivetrain (timing system)		gear tappet	
Valve actuation		tappet & push rod	
Variable valve actuation system		no	
Cylinder block (crankcase)		No Structural	
Material of cylinder block		cast iron	
Type of liners		dry	
Liners replaceable; (slip fit or interference fit)		no	
Bearing caps		machined cast iron	
Crankcase Ventilation		yes	
Oil separator		coalescent filter	
Crankshaft & counterweights		N/A	
Material		forged steel	
Acceptable Inertia (clutch)	kgm²	0.75	
Balancing		no	
Turbocharger & EGR system		N/A	
Turbocharger type		fixed geometry with wastegate valve	
Turbocharger supplier		Borgwarner	
Turbocharger control		WG pneumatic control	
Pressure after turbocharger compressor	mbar	1750	
Max turbine inlet temperature	°C	700	
Temperature after turbocharger compressor	°C	N/A	
Method of cooling the turbocharger	<u> </u>	oil lubricated	
Turbo protection devices		WG + software strategy	
·		WG + Software Strategy	
EGR type		<u> </u>	
EGR control strategy		-	
EGR recirculation rate		-	
Valve		-	
Cooler		-	
Control		-	
Air mass measurement			
Exhaust flap		N/A	
Exhaust flap supplier		Pierburg	
Actuation type		electronic actuator	
Exhaust flap cooling		yes	
Switchability (1500-1800 rpm)		N/A	
Emission level 1500 rpm		Stage V	
Emission level 1800 rpm		T4B (from end 2019)	
Front power take off		N/A	
PTO type		-	
Max torque available from front of crankshaft (no side load)	Nm	400	
Power take off on gear train		N/A	
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		N/A	
Engine dimension LxWxH (indicative values)	mm	1103 x 764 x 1164	





Main characteristics		@1500rpm @1800rpm	
G-Drive Dimension LxWxH (indicative values)	mm	N/A	
Max permissible engine inclination	deg	25	
Engine Weight - Dry (no fluids, value purely indicative)	kg	454	
Engine Weight - Wet (with fluids, value purely indicative)	kg	469	
G-Drive Weight - Dry (no fluids, value purely indicative)	kg	610	
G-Drive Weight - Wet (with fluids, value purely indicative)	kg	N/A	
Center of gravity (FFOB or RFOB according to picture, standard engine layout)	mm	N/A	
Principal moment of inertia (reference on center of gravity ,standard engine layout)	kgm²	N/A	
Principal moment of inertia (reference matrix based on center of gravity, standard engine layout)	kgm²	N/A	
Center of gravity (FFOB or RFOB according to picture, standard IPU/G-Drive layout)	mm	X = -20,1 mm, Y = 178,4 mm, Z = -405,4	
Principal moment of inertia (reference on center of gravity ,standard IPU/G-Drive layout)	kgm²	lx = 3,3322568e+07 kgm², lx = 6,4960636e+07 kgm², l = 7,9486493e+07	
Principal moment of inertia (reference matrix based on center of gravity standard IPU/G-Drive layout)	kgm²	N/A	
Mass moment of inertia - rotating components (excluding flywheel)	kgm²	0,33	
Mass moment of inertia - standard flywheel	kgm²	0,7 - 1,3	
Bending moment on the flywheel housing	Nm	Point 1:within safety factor with mass 130 kg @ Z:380 mm Point 2: within safety factor with mass @ max Z:750 mm Point 3: within safety factor mass 36 kg @ max Z: 1050mm	
Flywheel housing SAE sizing		N/A	
Flywheel SAE sizing		N/A	
Bending moment on PTO	Nm	140	
Max static mounting surface load	N	N/A	
Crankshaft thrust bearing pressure limit		not available	
Intermittent load:	MPa	-	
Continuous load:	MPa	15	
Rear main bearing load	MPa	-	
Max bending moment available from front of the crankshaft:		not available	
0 deg	Nm	100	
90 deg	Nm	270	
180 deg	Nm	270	
Environmental operating conditions		N/A	
Max altitude for declared performances	m	1500	
Max ambient temperaturefor declared performances	°C	depends from inlet air temperature, max temperature i 45°	
Min guaranteed temperature for cold start w/o any aid (stand alone engine)	°C	- 15	
Min guaranteed temperature for cold start with Air Heater (stand alone engine)	°C	- 25 (with grid heater and fuel heater)	
Min guaranteed temperature for cold start with grid heater and block heater (stand alone engine)	°C	- 30 (with grid heater, fuel heater and block heater)	
Time preheating for manifold heater	S	- 3°C = 0 s ; - 30°C = 21	
Time post heating for manifold heater	S	- 3°C : 0 s ; - 20°C : 200	
Low idle continuous operation time (reccomended)	h	3	
Engine performance [*]		N/A	
Continuous power (gross) [mech]	kW	109 127	





Main characteristics		@1500rpm	@1800rpm
Prime power (gross) [mech]	kW	141	159
Stand-by power (gross) [mech]	kW	150	175
Fan consumption [mech]	kW	5	8,5
Continuous power (net) [mech]	kW	104	119
Prime power (net) [mech]	kW	136	151
Stand-by power (net) [mech]	kW	145	167
Typical generator output		120	140
Generator available power @ Prime power	kW	156	179
Generator available power @ Stand by	kW	172	198
Power limitation according to ambient conditions		N	I/A
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		N	I/A
Pre-Warning: first advice of high coolant	••		
temperature[**]. Switch-on of the amber lamp	°C	1	02
Warning: second advice of high coolant temperature[**]. Switch-on of the red lamp	°C	1	06
Start of derating	°C	1	06
Altitude level: gradual reduction of transient response by smoke map correction from	m	2000	
Fuel temperature	°C	70	
Intake manifold air temperature	°C	70	
ATS Max gas inlet temperature	°C	580	
Max allowed exhaust temperature		600	
Turbine overheating protection	°C	700	
Turbine overspeed protection	rpm	-	
Oil temperature protection	°C	125	
Oil pressure protection (min engine rpm)	bar	0,5	
Oil pressure protection (min engine rpm)	Dai		7,0
Fuel System			
Fuel density	kg/l	0,835	
Injection system type		electronic	common rail
Injection pump manufacturer		Вс	sch
Injection model type		CRS	N2-16
Injection model pump		Bosch	CP3.3
Injection pressure	bar	16	600
Injector		Bosch (CRIN2-16
Injector installation (sleeve, sealing flat or conical)		vertical - no s	leeve - flat seal
Injector nozzle		8 x	400
Engine fuel compatibility		see dedicated GOLD E	Book document on fluids
Feed pump on engine		integrated in hig	h pressure pump
Max fuel flow supply line	l/h	2	80
Nominal feed pressure	bar	0,0	5 - 1
Fuel filter		single cartri	dge, left side
Fuel filter clogging sensor			es
Max continuous allowable fuel temperature (without derating)	°C	<u> </u>	70
Max relative pressure at gear pump inlet	bar		0
Min relative pressure at gear pump inlet	bar		0,5





Fuel System			
Max back flow relative pressure	bar	0,	2
Max back flow restriction	bar	0,2	
Max heat rejection to return fuel	kW	0,65	
Max fuel flow return line	kg/h	45	55
Min fuel tank venting requirement	m³/h	0,	4
Prefilter / Water separator micron size	μm	3	0
Air Intake System		@1500rpm	@1800rpm
Aftercooling system type		air to	o air
Interstage cooling type		-	
RoA (Temperature raise between ambient and inlet to engine	°C	≤ 2	25
Filter air intake temperature (warm air ricirculatuion)	°C	≤	5
Max intake manifold temperature	°C	5	0
Compressor inlet pressure (with new air filter)	hPa	≥-	45
Compressor inlet pressure (with dirty air filter)	hPa	≥-	65
Air filter type		-	
Loads on turbocharger on compressor intake	kg	2,	5
Loads on turbocharger on compressor outlet	kg	2,	5
Charge air flow (max)	kg/h	690	870
Exhaust System		@1500rpm	@1800rpm
Max back pressure (after exhaust flap) @ rated power			
with clean system	hPa	25	00
Max mechanical load on turbine flange	kg	0	
Max ambient temperature for exhaust flap actuator	°C	105	
Max exhaust temperature After Treatment System	°C	550	
Max exhaust flow rate	kg/h	99	06
Energy to exhaust	kW	107	124,8
After Treatment System			
After Treatment System		DOC + SCF	RoF + CUC
POC		<u>-</u>	
DPF		Υe	es
DOC		Υe	es
SCR		Υe	es
Urea Dosing System		Υe	es
AdBlue mixer		ує	es
ATS sensors		temperature, delta pre	essure, humidity, NOx
DPF regeneration strategy		active and	d passive
Lubrication System			
Oil sump capacity, max level	1	14	,7
Oil sump capacity, min level	I	8,8	
Oil system capacity including filter	I	10	6
Oil pump type		gear p	oump
Oil pump drive arrangement		driven b	
Min oil pump flow	l/min	~ *	
Max oil pump flow (@rated speed)	l/min	~ !	
Min oil pressure @ low idle (engine oil temp at 120°C)	kPa (bar)	60 (





Lubrication System			
Min oil pressure @ rated speed (engine oil temp at 120°C)	kPa (bar)	350 (3,5)	
Max oil pressure @ rated speed (engine oil temp at 120°C)	kPa (bar)	350 (3,5)	
Max oil temperature @ full load (in main gallery)	°C	< 120	
Max oil pressure peak on cold engine	bar	15	
Oil cooler type		water cooled	
Transducer for indicating oil temperature and pressure		signal from ECU	
Max engine angularity - longitudinal / transversal (std oil pan)	deg	< 35° (depends on the oil pan)	
Allowed engine gradability during installation on vehicle	deg	+/- 4°	
Oil servicing intervals	h	see dedicated GOLD Book document on fluids	
Oil filter type		single cartridge, right side	
Oil filter capacity	1	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)		water to water	
Recommended coolant		see dedicated GOLD Book document on fluids	
Min radiator cap pressure	kPa	0,7	
Warnnig setting first threshold	°C	102	
Max additional restriction (cooling system)	Pa	N/A	
Air to boil (prime power, open genset configuration). For further information see GB document	°C	55	
Air flow (prime power, open genset configuration)	m³/s	N/A	
Air to boil (stand by, open genset configuration). For further information see GB document	°C	N/A	
Air flow (stand by, open genset configuration)	m³/s	N/A	
EGR Cooler water flow (for ΔT=6°C)	l/s	<u>-</u>	
LP-CAC water flow (for ΔT=6°C)	l/s	<u>-</u>	
Fan		N/A	
Diameter	mm	655	
Number of blades		12	
Drive ratio		1,4	
Speed		2115 (@50Hz) / 2538 (@60Hz)	
Air flow		3,8 (m3/s) @50Hz / 4,8 (m3/s) @60Hz	
Power consumption		4,8 (kWm) @50Hz) / 8,3 (kWm) @60Hz	
Radiator		N/A	
Core dimensions LxWxh	mm	758 x 308 x 1163	
Dry weight	kg	N/A	
Radiator coolant capacity	1	13	
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)	1	12,6	
Coolant capacity (radiator & hoses)	I	15	
Thermostat type		wax type	
The array and adding a sidilary		P 1 1 1	

Thermostat opening / fully open temperature

Thermostat position

°C

on cylinder head

80 ÷ 90





Cooling system		@1500rpm @1800rpm	
Recommended coolant circuit pressurization range (relative)	hPa	N/A	
Coolant engine pressure outlet – inlet (delta pressure, open thermostat, high idle conditions)	hPa	< 0,2	
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	190	
Min coolant expansion space (% total cooling system capacity)	%	Expansion Tank volume (and max level) must cons also coolant thermal expansion to avoid coolant los high temperature conditions. This can be checked ATB Power Test	
Max coolant flow to accessories @ rated speed from cab heater	l/min	1200	
Engine out coolant to ambient @rated speed	delta °C	not available	
Engine out coolant to ambient @torque speed	delta °C	not available	
Charge air cooler outlet to ambient @max rpm - CAC dT	delta °C	25	
Pump water flow	l/min	154 185	
Electrical, Electronic and Control Systems			
System voltage	V	12 - 24	
Engine control unit		Bosch MD1 CE101	
ECU software		P1603 V45.1	
ECU Vehicle connection		with or w/o interface box	
ECU operating range	°C	- 30 ÷ + 95°C	
Temperature of ECU case for <5' after power up	°C	+ 85	
ECU rated continuous temperature	°C	+ 80	
ECU communication protocol		SAE J1939 or FPT	
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	≤ 80	
Diagnostic connector type		on board	
Min cranking speed TDC @-30°C	rpm	75	
Average cranking speed	rpm	115	
N° tooth pinion/crown gear		10 / 125	
Min battery voltage	V	9(12V System) - 16(24V System)	
Mean battery voltage	V	11(12V System) - 18,4(24V System)	
Min battery current	Ah	130 (24V)	
Mean battery current	Ah	500 (24V)	
Max starting circuit resistance (to starter)	mΩ	< 70	
Cold starting			
Without air preheating	°C	- 15	
With air preheating (if available)	°C	- 25	
Emission gaseus and particulales	a/ls/A/la	and homologation soutificate	
NOx (Oxides of nitrogen) [NRSC]	g/kWh	see homologation certificate	
HC (Hydrocarbons) [NRSC]	g/kWh	see homologation certificate	
NOX+HC [NRSC]	g/kWh	see homologation certificate	





Emission gaseus and particulales			
CO (Carbon monoxide) [NRSC]	g/kWh	see homologati	on certificate
PM (Particlutes) [NRSC]	g/kWh	g/kWh see homologation certificate	
CO2 (Carbon Dioxide) [NRSC]	g/kWh	see homologati	on certificate
NOx (Oxides of nitrogen) [NRTC]	g/kWh	see homologati	on certificate
HC (Hydrocarbons) [NRTC]	g/kWh	see homologati	on certificate
NOX+HC [NRTC]	g/kWh	see homologati	on certificate
CO (Carbon monoxide) [NRTC]	g/kWh	see homologati	on certificate
PM (Particlutes) [NRTC]	g/kWh	see homologati	on certificate
CO2 (Carbon Dioxide) [NRTC]	g/kWh	see homologati	on certificate
Maintenance			
Oil drain interval		see dedicated GOLD Bo	ok document on fluids
Oil filter change		see dedicated GOLD Bo	ok document on fluids
Oil refilling time		daily check to evaluat	te oil refill necessity
Approved engine oil specifications		see dedicated GOLD Bo	ok document on fluids
CCV filter change		1200) h
Fuel filter change		600	h
Fuel pre-filter change		600	h
Belt replacement		1200) h
Valve lash check /adjustment		2400) h
AdBlue filter Change	see dedicated GOLD Book document		D Book document
DPF filter service	see dedicated GOLD Book document		D Book document
Coolant change		see dedicated GOLD Bo	ok document on fluids
Overall sound pressure (engine only) Overall sound pressure (with accessories only)	dBA dBA	93 N/A	
Exahust noise (w/o Muffler)	dBA	N/A	
Noise spectrum (octave analysis performed at the position of maximum noise) - diagram	Table dB-Hz	N/A	4
A-weight sound power level LW function of power (value calculated respecting standard ISO 3744 and 3746. For further information see GB document)		N/A	4
0% (no load)	dBA	N/A	
75% (partial load)	dBA	N/A	
100% (full load)	dBA	N/A	
110% (overload)	dBA	N/A	
Step Load (for further information see GB		@1500rpm	@1800rpm
document) G1 (% of PrP)	%	N/A	N/A
G2 (% of PrP)	%	N/A	N/A
G3 (% of PrP)	%	N/A	N/A
\ · · · · /	%	-	-
G1 (% of PrP) [open flap]	,,	-	_
	%		
G2 (% of PrP)[open flap]	%	_	
G2 (% of PrP)[open flap] G3 (% of PrP)[open flap]	%	-	-
G2 (% of PrP)[open flap] G3 (% of PrP)[open flap] G1 (% of PrP) [closed flap]	% %	-	-
G2 (% of PrP)[open flap] G3 (% of PrP)[open flap] G1 (% of PrP) [closed flap] G2 (% of PrP) [closed flap]	% % %	-	-
G2 (% of PrP)[open flap] G3 (% of PrP)[open flap] G1 (% of PrP) [closed flap] G2 (% of PrP) [closed flap] G3 (% of PrP) [closed flap]	% % % %	-	
G1 (% of PrP) [open flap] G2 (% of PrP)[open flap] G3 (% of PrP)[open flap] G1 (% of PrP) [closed flap] G2 (% of PrP) [closed flap] G3 (% of PrP) [closed flap] Removal load (G1) Removal load (G2)	% % %	-	-





Step Load (for further information see GB document)		@1500rpm	@1800rpm
Removal load (G3)	%	-	-
Emergency (xxx)	%	-	-
Emergency (xxx)	%	-	-
Emergency (xxx)	%	-	-
Maximum Rating Performance Data		@1500rpm	@1800rpm
Torque	Nm	955	928
Ambient Temperature	°C	N/A	
EGR Rate	%	-	-
Fuel Flow	g/s	9,6	9,4
Fuel consumption (BSFC) (prime power)	(kg/h) [g/kWh]	(27,5) [194]	(31,2) [196]
Fuel consumption (BSFC) (stand by)	(kg/h) [g/kWh]	(30,3) [195]	(34,3) [196]
Fuel consumption (BSFC) (80% prime power)	(kg/h) [g/kWh]	(21,2) [194]	(25,1) [198]
Fuel consumption (BSFC) (50% prime power)	(kg/h) [g/kWh]	(13,6) [201]	(16,3) [204]
Fuel consumption (BSFC) (25% prime power)	(kg/h) [g/kWh]	(7,5) [222]	(9,3) [234]
AdBlue consumption (prime power)	% of fuel cons	9,1	9,9
AdBlue consumption (stand by)	% of fuel cons	8,4	9,7
AdBlue consumption (80% prime power)	% of fuel cons	7,8	8,9
AdBlue consumption (50% prime power)	% of fuel cons	7	5,2
AdBlue consumption (25% prime power)	% of fuel cons	6,2	8,1
Exhaust Gas Flow	kg/h	721	904
Design air handling system data		@1500rpm	@1800rpm
EGR flow	kg/h		-
EGR pressure	kPa	-	_
Boost pressure (compressor outlet)	kPa	-	_
Pressure drop on charge air cooling system	kPa	-	_
Max temperature after HP-Compressor	°C	-	-
Boost temperature (includes EGR effect)	°C	-	-
ATS back pressure	kPa	-	-
Exhaust Gas Temp between HP-TC	°C	-	-
Max Exhaust Gas Temp (after TC)	°C	-	-
Max admitted back pressure after SCR	kPa	-	-
Max admitted back pressure after TC	kPa	-	-
Power engine coolant without EGR & CAC (prime	kW [kcal/kWh]	-	-
power) Power engine coolant without EGR & CAC (stand by)	kW [kcal/kWh]	-	_
Power high Temperature EGR Cooler (engine water)	kW [kcal/kWh]	<u> </u>	-
prime power) 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]	-	-
Fotal Power to coolant (prime power)	kW [kcal/kWh]	57,1	66,6
Fotal Power to coolant (stand by)	kW [kcal/kWh]	63,4	74
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	l/s	2,57	3,08
Total pump water flow	· · · · · · · · · · · · · · · · · · ·	-,	-
Radiator Coolant Flow (5% less if continuous	l/min		
Fotal pump water flow Radiator Coolant Flow (5% less if continuous deareating system, coolant according to FPT norms) EGR Cooler water flow (for ΔT=6°C)	l/min I/s	-	-





Design air handling system data		@1500rpm	@1800rpm
Power in CAC (air to air) (prime power)	kW [kcal/kWh]	18,3	21,3
Power in CAC (air to air) (stand by power)	kW [kcal/kWh]	20,3	23,7
Power Radiated	kW	10,5	12,3
Charge Air Flow	g/s	N/A	

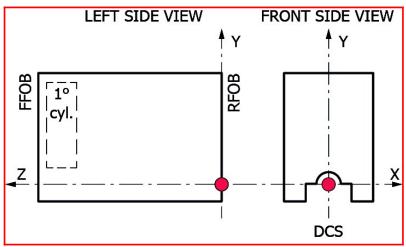
[*] Power at flywheel according dir. 97/68 EC (w/o fan), after 50 hours of run-in, tolerance ±5%, fuel EN 590; Test according ISO 3046/1, turbo air inlet temperature 25°C, atmospheric pressure 100 kPa, humidity 30 %

N/A

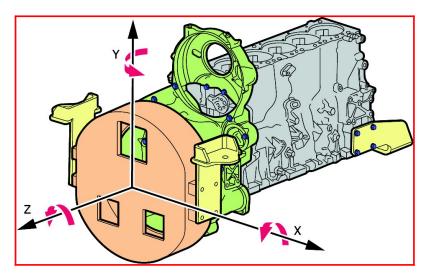
[**] according to temperature sensor tolerance

N/A

Images

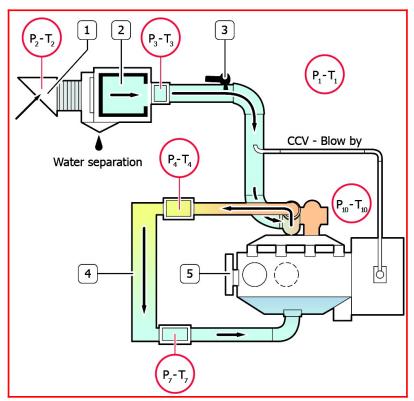


Principal Moment of Inertia

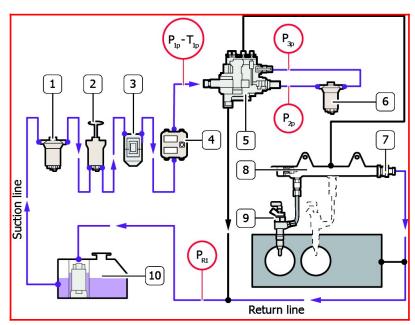


Components





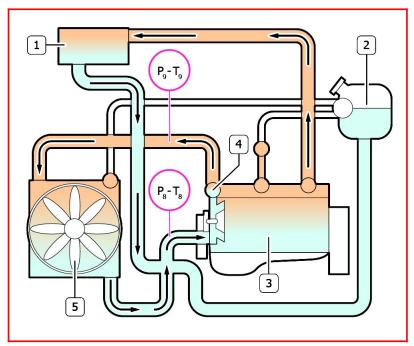
1. Snorkel 2. Air Filter 3. Humidity sensor 4. Intercooler



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	
OHV	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

0. 5/110		
Revision	Description	Date
Revision 3.0_Mar 2022		March/2022
Revision 4.0_Jan 2023		January/2023
Revision 4.1_Apr 2023		April/2023
Revision 4.2_Jun 2023		June/2023