



Brochure main description		@1500rpm	@1800rpm
Application & simbol		Power Ge	· · ·
Engine identication main		F3	4
Engine identication rating	kW	55	55
Engine features		PG G-	
Emission feature		Tier4B_	
Main characteristics		@1500rpm	@1800rpm
Emission certification		Tier 4B_	Stage V
Commercial code (for order)		F34TEV	P01.00
Other Commercial code		-	
Technical code (original plant engine code, on engine		F5HGL41	54*¥001
block)			
Technical homologation code		F5HGL4	
Stand-by power (gross) [mech]	kW	55	55
Specific power	kW/I	16,2	16,2
Electric commercial power (estimation alternator power output)	kWe [kVA]	48 [60] (generator eff. 0,88)	47 [59] (generator eff. 0,88)
BMEP	bar	12,9	10,8
	% fuel	ļ	
Oil consumption on mission (average)	comsumption	0,2	25
Cycle		diesel 4	stroke
Air charging system pattern		Turbochargeo	aftercooled
Number of cylinder		4	
Configuration (cylinder arrangement)		in li	ne
Bore	mm	99	)
Stroke	mm	11	0
Stroke / Bore		1,1	1
Displacement	I	3,	4
Unit Displacement	I	0,8	5
Bore pitch	mm	11	0
Valves per cylinder		2	
Cooling system type		liqu	id
Direction of rotation (looking flywheel)		anti-clockwise	
Compression ratio		17	:1
Firing order		1 - 3 -	
Injection type		direct - electron	ic common rail
Engine brake configuration			
Be10		800	
Cylinder Head			
Single / Multiple		sing	nle
Material		cast	•
Head air circulation		reverse	
Intake valve dia.	mm	4	
Exhaust valve dia.		33	
Camshaft	mm	3	
		OF	N/
Layout			
Comportion			ovlindor
Cam carrier Material and Heat treatment		on block C53 bon - harness	



## F34TEVP01.00 G-DRIVE TIER 4B\_STAGE V

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		parent metal cylinder block
Liners replaceable; (slip fit or interference fit)		no
Bearing caps		machined cast iron
Crankcase Ventilation		closed
Oil separator		centrifugal
Crankshaft & counterweights		
Material		GH 90-52-05 AS 15-2218
Acceptable Inertia (clutch)	kgm <sup>2</sup>	0,8
Balancing	Ŭ	no
Turbocharger & EGR system		
Turbocharger type		fixed geometry with wastegate valve
Turbocharger supplier		BorgWarner
Turbocharger control		WG pneumatic control
Pressure after turbocharger compressor	mbar	2600
Max turbine inlet temperature	°C	2000
Temperature after turbocharger compressor	 2°	
Method of cooling the turbocharger	0	oil lubricated
Turbo protection devices		wastegate and ECU derating
EGR type		
		yes external cooled EGR
EGR control strategy		
EGR recirculation rate		<10%
Valve		Ø 21
Cooler		water cooler
Control		from engine ECU
Air mass measurement		no
Exhaust flap		
Exhaust flap supplier		-
Actuation type		-
Exhaust flap cooling		-
Switchability (1500-1800 rpm)		
Emission level 1500 rpm		StageV
Emission level 1800 rpm		Tier4B
Front power take off		
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)		890 x 665 x 880





Main characteristics		@1500rpm	@1800rpm
G-Drive Dimension LxWxH (indicative values)	mm	1215 x 74	0 x 965
Max permissible engine inclination	deg	30	
Engine Weight - Dry (no fluids, value purely indicative)	kg	390	
Engine Weight - Wet (with fluids, value purely indicative)	kg	400	
G-Drive Weight - Dry (no fluids, value purely indicative)	kg	435	
G-Drive Weight - Wet (with fluids, value purely indicative)	kg	450	)
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	x = 9 ; y = 148	3 ; z = -208
Principal moment of inertia (reference on center of gravity ,standard IPU/G-Drive layout)	kgm²	l1 = 21 kgm²; l2 = 3	32 kgm²; I3 = 40
Principal moment of inertia (reference matrix based on center of gravity,standard IPU/G-Drive layout)	kgm <sup>2</sup>		
Mass moment of inertia - rotating components (excluding flywheel)	kgm <sup>2</sup>		
Mass moment of inertia - standard flywheel	kgm <sup>2</sup>	1,18	9
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	N/A	l.
Crankshaft thrust bearing pressure limit			
Intermittent load:	MPa	N/A	
Continuous load:	MPa	N/A	
Rear main bearing load	MPa	N/A	
Max bending moment available from front of the crankshaft:			
0 deg	Nm	100	
90 deg	Nm	300	)
180 deg	Nm	300	)
Environmental operating conditions			
Max altitude for declared performances	m	167	6
Max ambient temperaturefor declared performances	°C	40	
Min guaranteed temperature for cold start w/o any aid (stand alone engine)	°C	- 15	
Min guaranteed temperature for cold start with grid heater (stand alone engine)	°C	- 25	
Min guaranteed temperature for cold start with grid heater and block heater (stand alone engine)	°C	- 32	
Time preheating for manifold heater	S	@ -3°C: 0 ;·	-30°C : 21
Time post heating for manifold heater	S	@ -3°C: 0 ; -3	
Low idle continuous operation time (reccomended)	h	N/A	
Engine performance (Prime power and standby power defined according to ISO normative 8528-1)			
Continuous power (gross) [mech]	kW	39	39
Prime power (gross) [mech]	kW	55	55
Stand-by power (gross) [mech]	kW	55	55





Main characteristics		@1500rpm	@1800rpm
Fan consumption [mech]	kW	1	1,4
Continuous power (net) [mech]	kW	39,8	39,2
Prime power (net) [mech]	kW	54	53,6
Stand-by power (net) [mech]	kW	54	53,6
Typical generator output		88%	88%
Generator available power @ Prime power	kW	47,5 (generator eff. 0,88)	47,2 (generator eff. 0,88)
Generator available power @ Stand by	kW	47,5 (generator eff. 0,88)	47,2 (generator eff. 0,88)
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	10	)4
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	00
Fuel temperature	°C	7	0
Intake manifold air temperature	°C	7	0
ATS Max gas inlet temperature	°C	60	00
Max allowed exhaust temperature	°C	740 cont.	/ 760 peak
Turbine overheating protection	°C	N	/A
Turbine overspeed protection	rpm	N	/A
Oil temperature protection	°C	12	25
Oil pressure protection (min engine rpm)	bar		

Fuel density	kg/l	0,84
Injection system type	-	electronic common rail
Injection pump manufacturer		Bosch
Injection model type		common rail
Injection model pump		CP4N1
Injection pressure	bar	1600
Injector		CRI 2-16 OHW
Injector installation (sleeve, sealing flat or conical)		sealing flat
Injector nozzle		8 x 350
Engine fuel compatibility		see dedicated GOLD Book document
Feed pump on engine		integrated in high pressure pump
Max fuel flow supply line	l/h	
Nominal feed pressure	bar	1600
Fuel filter		single cartridge on left side
Fuel filter clogging sensor		yes
Max continuous allowable fuel temperature (without derating)	C°	70
Max relative pressure at gear pump inlet	bar	N/A
Min relative pressure at gear pump inlet	bar	N/A
Max back flow relative pressure	bar	
Max back flow restriction	bar	
Max heat rejection to return fuel	kW	





Eucl System			
Fuel System	l car lla	@1500mmm 14.0 km/h /	21200mm 11.0 km/h
Max fuel flow return line	kg/h	@1500rpm: 11,6 kg/h (	2/1600rpm: 11,8 kg/n
Min fuel tank venting requirement	m³/h	- 000/ r	<u>२</u> २०
Prefilter / Water separator micron size	μm	> 99% (	<u>1</u> 930
Air Intake System		@1500rpm	@1800rpm
Aftercooling system type		air to a	air
nterstage cooling type		-	
RoA (Temperature raise between ambient and inlet to	°C	10	
engine Filter air intake temperature (warm air ricirculatuion)	°C	40	
Max intake manifold temperature	0	50	
Compressor inlet pressure (with new air filter)	hPa	> - 2	0
Compressor inlet pressure (with dirty air filter)	hPa	> - 5	-
Air filter type	in u	cartrid	
Loads on turbocharger on compressor intake	kg	0	90
Loads on turbocharger on compressor outlet	kg	0	
Charge air flow (max)	kg/h	230	262
Exhaust System		@1500rpm	@1800rpm
Max back pressure (after exhaust flap) @ rated power with clean system	hPa	220	
Max mechanical load on turbine flange	kg	0	
Max ambient temperature for exhaust flap actuator	°C	-	
Max exhaust temperature After Treatment System	°C	740 cont. / 7	′60 peak
Max exhaust flow rate	kg/h	243 (1500rm) - 275 (1800rpm)	
Energy to exhaust	kW	33,1	33,2
After Treatment System			
After Treatment System		DOC +	DPF
POC	not installed		
		yes	
000		yes yes	
DOC SCR		yes yes not insta	alled
DOC SCR Jrea Dosing System		yes yes not insta not insta	alled
DOC SCR Jrea Dosing System AdBlue mixer		yes yes not insta not insta not insta	alled alled alled
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DOC SCR Jrea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Dil sump capacity, max level Dil sump capacity, min level		yes yes not insta not insta OPF Delta Pressure - US/DS Active and	alled alled alled DOC Temperature senso
DOC SCR Jrea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Oil sump capacity, max level Oil sump capacity, min level Oil system capacity including filter		yes yes not insta not insta DPF Delta Pressure - US/DS Active and 8 6 9,5	alled alled alled DOC Temperature senso Passive
DOC SCR Jrea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type	     	yes yes not insta not insta DPF Delta Pressure - US/DS Active and 8 6 9,5 gear pu	alled alled DOC Temperature senso Passive
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DOC SCR Jrea Dosing System AdBlue mixer ATS sensors DPF regeneration strategy Lubrication System Oil sump capacity, max level Oil sump capacity, min 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)	l l l	yes yes not insta not insta DPF Delta Pressure - US/DS Active and 8 6 9,5 gear pu driven by	alled alled DOC Temperature senso Passive
DOC SCR Urea Dosing System AdBlue mixer ATS sensors	l l l l/min l/min	yes yes not insta not insta DPF Delta Pressure - US/DS Active and 8 6 9,5 gear pu driven by	alled alled DOC Temperature senso Passive





Lubrication System		
/lax oil temperature @ full load (in main gallery)	°C	125
lax oil pressure peak on cold engine	bar	
Dil cooler type		water cooled
ransducer for indicating oil temperature and pressure		Signal from ECU
/lax engine angularity - longitudinal / transversal (std pan)	deg	35
Allowed engine gradability during installation on rehicle	deg	± 4
Dil servicing intervals	h	600
Dil filter type		cartridge
Dil filter capacity	I	0,5
Max oil content admitted in blow by gas (after filter)	 g/h	< 0.5
Dil for cold condition mission (T° ambient < $-25^{\circ}$ C)	9/11	see dedicated GOLD Book document on fluids
Cooling system		@1500rpm @1800rpm
Гуре (water to water or air to water)		air to water
Recommended coolant		50% water and 50% coolant (depending on mission)
/in radiator cap pressure	kPa	100
Varnnig setting first threshold	°C	106
Aax additional restriction (cooling system)	Pa	N/A
Air to boil (prime power, open genset configuration).	°C	53°C @1500rpm
For further information see GB document	m <sup>3</sup> /a	
Air flow (prime power, open genset configuration) Air to boil (stand by, open genset configuration). For	m³/s	
urther information see GB document	°C	N/A
Air flow (stand by, open genset configuration)	m³/s	
EGR Cooler water flow (for ΔT=6°C)	l/s	N/A
.P-CAC water flow (for ΔT=6°C)	l/s	N/A
an		
Diameter	mm	550
Number of blades		10
Drive ratio		1,1
Speed		3,3 m/s @1500rpm 4,3 m/s @1800rpm
Air flow		1 m3/s @1500rpm 1,3 m3/s @1800rpm
Power consumption		@1500rpm: 1 kW @1800rpm: 1,4 kW
Radiator		
Core dimensions LxWxh	mm	625 x 80 x 720
Dry weight	kg	31
Radiator coolant capacity	Ι	5,1
Optimum coolant temperature range @engine out (50% glycol)	°C	80
Engine Water pump Type		centrifugal pump
Engine water pump drive		driven by belt
Coolant capacity (engine only)		5
Coolant capacity (radiator & hoses)	I	N/A
Thermostat type		wax type
Thermostat position		on cylinder head
Thermostat opening / fully open temperature	°C	79 ± 2 ÷ 94 ± 2
Recommended coolant circuit pressurization range (relative)	hPa	1000
Coolant engine pressure outlet – inlet (delta pressure, open thermostat, high idle conditions)	hPa	300





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		
Coolant water pump inlet pressure (water temperature 60-100°C)	hPa	6	0
Coolant flow to radiator @rated speed	l/h		
Min coolant expansion space (% total cooling system capacity)	%		
Max coolant flow to accessories @ rated speed from cab heater	l/min		
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	111	134
Electrical, Electronic and Control Systems			
System voltage	V	1	2
ngine control unit		MD1 C	S069
ECU software		P1738	v51.1
ECU Vehicle connection		via (	CAN
ECU operating range	°C	- 40 ÷ + 105	
emperature of ECU case for <5' after power up	°C	85	
CU rated continuous temperature	C°	80	
CU communication protocol		SAE J1939	
lin power supply for ECU operation	V	10	
lax power supply for ECU operation	V	16	
lattery wire connection resistance value @20°C (from attery to ECU)	mΩ	≤ 70	
Diagnostic connector type		ISO 14229	
/lin cranking speed TDC @-30°C	rpm	70	
Average cranking speed	rpm	110	
l° tooth pinion/crown gear		10 /	126
Ain battery voltage	V	1	0
lean battery voltage	V	14 ±	0,5
Ain battery current	Ah	N/	A
Mean battery current	Ah	10	1
Max starting circuit resistance ( to starter)	mΩ	<	70
Cold starting			
Nithout air preheating	°C	- 1	5
Vith air preheating (if available)	٦°	- 2	5
Emission gaseus and particulales			
NOx (Oxides of nitrogen) [NRSC]	g/kWh	see homologa	tion certificate
IC (Hydrocarbons) [NRSC]	g/kWh	see homologa	
IOX+HC [NRSC]	g/kWh	see homologa	
CO (Carbon monoxide) [NRSC]	g/kWh	see homologa	
PM (Particlutes) [NRSC]	g/kWh	see homologa	
CO2 (Carbon Dioxide) [NRSC]	g/kWh		
	9/6001	see homologation certificate	





Emission gaseus and particulales HC (Hydrocarbons) [NRTC]	g/kWh	see homologation certificate		
NOX+HC [NRTC]	0	see homologation certificate		
	g/kWh	-		
CO (Carbon monoxide) [NRTC]	g/kWh	see homologation certificate		
PM (Particlutes) [NRTC]	g/kWh	see homologation certificate		
CO2 (Carbon Dioxide) [NRTC]	g/kWh	see homologation certificate		
Maintenance				
Oil drain interval		see dedicated GOLD Book document on fluids		
Oil filter change		600 h		
Oil refilling time		daily check to evaluate oil refill necessity		
Approved engine oil specifications				
CCV filter change		1800 h		
Fuel filter change		600 h		
Fuel pre-filter change		600 h		
Belt replacement	3000 h			
Valve lash check /adjustment	for life			
AdBlue filter Change	not installed			
DPF filter service	600 h			
Coolant change		3000 h		
Engine Noise				
Overall sound pressure (engine only)	dBA	92,5		
Overall sound pressure (with accessories only)	dBA	N/A		
Exahust noise (w/o Muffler)	dBA	N/A		
Noise spectrum (octave analysis performed at the	Table dB-Hz	N/A		
position of maximum noise) - diagram		IN/A		
A-weight sound power level LW function of power (value calculated respecting standard ISO 3744 and				
3746. For further information see GB document)				
0% (no load)	dBA			
75% (partial load)	dBA			
100% (full load)	dBA			
110% (overload)	dBA			

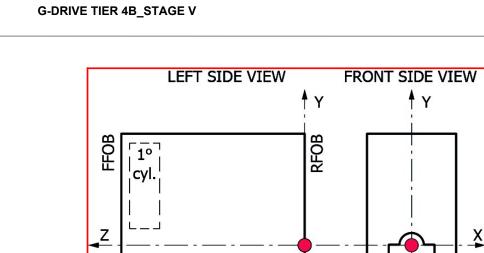
Step Load (for further information see GB document)		@1500rpm	@1800rpm
G1 (% of PrP)	%	100	N/A
G2 (% of PrP)	%	100	N/A
G3 (% of PrP)	%	83	100
G1 (% of PrP) [open flap]	%	N/A	N/A
G2 (% of PrP)[open flap]	%	N/A	N/A
G3 (% of PrP)[open flap]	%	N/A	N/A
G1 (% of PrP) [ closed flap]	%	N/A	N/A
G2 (% of PrP) [closed flap ]	%	N/A	N/A
G3 (% of PrP) [closed flap]	%	N/A	N/A
Removal load (G1)	%	N/A	N/A
Removal load (G2)	%	N/A	N/A
Removal load (G3)	%	N/A	N/A
Emergency (xxx)	%	N/A	N/A
Emergency (xxx)	%	N/A	N/A
Emergency (xxx)	%	N/A	N/A



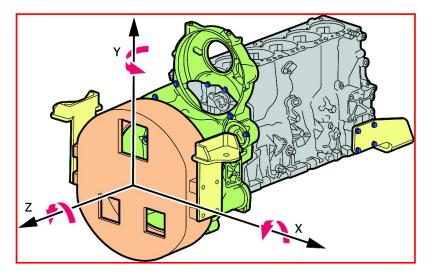


Maximum Rating Performance Data		@1500rpm	@1800rpm
Torque	Nm	350	292
Ambient Temperature	°C	22	22
EGR Rate	%	<10	<10
Fuel Flow	g/s	3,24	3,28
Fuel consumption (BSFC) (prime power)	(kg/h) [g/kWh]	[212]	[215]
Fuel consumption (BSFC) (stand by)	(kg/h) [g/kWh]	[212]	[215]
Fuel consumption (BSFC) (80% prime power)	(kg/h) [g/kWh]	[212]	[220]
Fuel consumption (BSFC) (50% prime power)	(kg/h) [g/kWh]	[221]	[239]
Fuel consumption (BSFC) (25% prime power)	(kg/h) [g/kWh]	[255]	[295]
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	243	275
Design air handling system data			
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) (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]	36,9	36,6
Total Power to coolant (stand by)	kW [kcal/kWh]	36,	36,6
Total pump water flow	l/s	1,85	2,23
Radiator Coolant Flow (5% less if continuous deareating system, coolant according to FPT norms)	l/min		
EGR Cooler water flow (for $\Delta T=6^{\circ}C$ )	l/s		
LP-CAC water flow (for $\Delta T=6^{\circ}C$ )	l/s		
Power in CAC (air to air) (prime power)	kW [kcal/kWh]	6,7	7,7
Power in CAC (air to air) (stand by power)	kW [kcal/kWh]	7,3	8,3
Power Radiated	kW	7,8	7,8
Charge Air Flow	g/s		
<u>-                                    </u>	5, 5		L





Principal Moment of Inertia



DCS

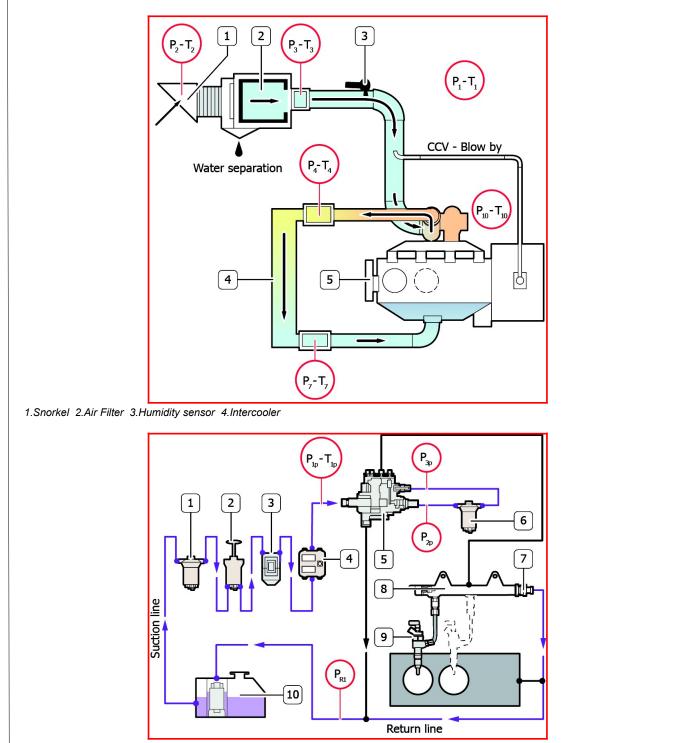
Components

4

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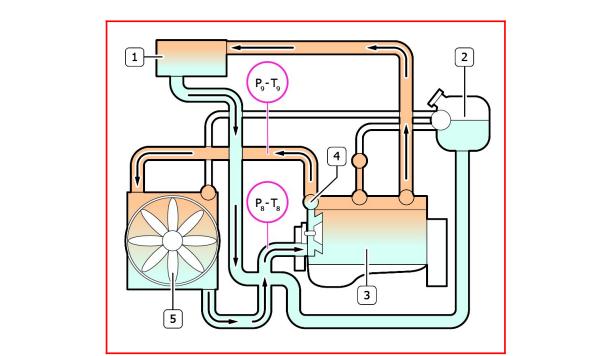




1.Inspection glass with strainer 2.Prime pump 3.Pre-filter with water separator 4.ECU 5.High Pressure pump 6.Fuel Filter 7.Overpressure valve 8.Common Rail 9.Injectors 10.Fuel tank







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





## ACRONYMS LIST

Acronyms	Description	Acronyms	Description
-	Not Needed	iEGR	Internal EGR
2stTC	Two Stage Turbo (sequential)	IPU	Industrial Power Unit
Ag	Agricultural	ISC	Interstage Cooling
ASC	Ammonia Slip Catalyst (same as CUC)	LD	Light Duty
ATS	After Treatment System	LDCV	Light Duty Commercial Vehicles
BSFC	Brake Specific Fuel Consumption	LH	Left Hand Side
CAC	Charge Air Cooler	LWR	Laser Welded Rail
CCDPF	Close Coupled DPF	MD	Medium Duty
CCV	Crankcase Ventilation	n/a	Not Available
CE	Construction Equipment	NA	Natural Aspirated
CI	Cast Iron	NS	Non Structural
CRS	Common Rail System	OHV	Over Head Valves
CRSN	Common Rail System NKW (Commercial vehicles)	OPT	Option
CUC	Clean Up Catalyst for ammonia (same as ASC)	PCP	Peak Cylinder Pressure
DAVNT	Dual Axis Variable Nozzle Turbine	РТО	Power Take Off
DCS	Drawing Coordinate System	RFOB	Rear Face of Block
DI	Direct Injection	RH	Right Hand Side
DOC	Diesel Oxidation Catalyst	S	Structural
DOHC	Double Over Head Camshaft	SAPS	Sulphated Ash, Phosphorus, Sulphur
DPF	Diesel Particulate Filter	SCR	Selective Catalytic Reduction catalyst
ECEGR	External Cooled EGR	SCRoF	SCRon filter
ECU	Engine Control Unit	SOHC	Single Over Head Camshaft
EEGR	External EGR	STD	Standard
EGR	Exhaust Gas Recirculation	тс	Turbocharged
epWG	Electro pneumatic WG	TCA	Turbocharged, Charge Air Cooled
eVGT	Electrical VGT	ТНМ	Thermal Management
eWG	Electrical WG	UFDPF	Under Floor DPF
FFOB	Front Face of Block	UQS	Urea Quality Sensor
FGT	Fixed Geometry Turbocharger (no WG)	VE	Bosch Distributor Mechanical Pump
FIE	Fuel Injection System	VFT	Variable Flow Turbine
HD	Heavy Duty	VGT	Variable Geometry Turbocharger
HLA	Hydraulic Lash Adjusters	WG	Waste Gate Turbocharger
IDI	Indirect Injection	ХРІ	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 3.0_Mar 2022		March/2022
Revision 3.1_Sep 2022		October/2022



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