General Engine Data			IF07ATIH-N	IF07BTIH-N	IF07CTIH-N
Туре			4 cycle, 6 Cylinder In Line, Water cooled		
Aspiration			Turbo charged, Intercooled		
Cylinder Type				Replaceable dry liner	
Bore x Stroke		mm		104 x 132	
Displacement		litre		6.728	
Compression Ratio				17.5 : 1	
Valves per Cylinder	- Intake			1	
	- Exhaust			1	
Valve Timing	- Intake		Openir	ng: 15° BTDC - Close: 35	° ABDC
	- Exhaust		Oper	ning: 69° BBDC - Close: /	ATDC
Valves lashes at cold	- Intake	mm		0.25 ±0.5	
	- Exhaust	mm		0.50 ±0.5	
Combustion Type				Direct Injection	
Firing Order				1-5-3-6-2-4	
Rotation			Counter	Clockwise, viewed from	flywheel
Dimension IF07A-B-C	TIH-N (L x W x H)	± mm		1,210 x 824 x 1,554	
Dry Weight		Approx. kg		730	

IF07ATIH-N <i>kW</i> 127 159 180 184 189 1	7 197	197
		197
IF07BTIH-N <i>kW</i> 127 182 206 210 215 2	8 220	222
IF07CTIH-N	8 244	246

Power :

At flywheel according to 97/68 EC, after 50 hours running, 3% tolerance, fuel Diesel EN 590

ISO 3046/1, 25 ° Celsius air temperature, 100 kPa atmospheric pressure, 30 % relative humidity – Applicable also to DIN 6271, BS 5514, SAE J1349 Standards. Test conditions :

Fuel System		IF07ATIH-N	IF07BTIH-N	IF07CTIH-N
Injection Pump	S	StanaDyne Rotary Pump	type	
Governor			Fixed speed control	
Fuel Lift Pump	Exclus	sive (Electric version as a	in Option)	
Fuel Filter		Full flow, cartridge type		
Used Fuel			Diesel fuel according EN	590
Fuel consumption at Full Load Approx.	at 2,940 rpm	230	235	229
Fuel consumption information at other Revs.		See	table no. 03.400.06FCEN	N.03
Standard Fuel Pump Supply Connection mm		m M 16x1.5		
Standard Fuel Pump Return Connection mm			M 16x1.5	

Electrical System		24 Volts (Nominal)
Starter motor	kW	4
Battery Min. capacity recommended	Ah	180 (12 Volts)
Quantity per battery bank		2
Battery Cold Cranking Amperes	@ -18°C	800
Charging Alternator Output	Amp.	90
Engine stop device build in fuel pump		Energized to Stop

Air Induction System		IF07ATIH-N	IF07BTIH-N	IF07CTIH-N
Air Cleaner Type			Dry	
Engine Air Flow	m³/min	19.0	20.0	20.3
Air Inlet Restriction Dirty	kPa		6.5	
Air Inlet Restriction Clean	kPa	2.0	2.0	3.0
Turbo charging pressure at full load/rate	ed speed kPa	140	160	170
Turbo charging air inlet maximum temp	erature ^o C		55	

Cooling system with DE MAAS std h	eat exchanger	IF07ATIH-N	IF07BTIH-N	IF07CTIH-N
Heat Exchanger Minimum Flow	l/min / kW installed	0.7	0.7	0.8
Water Pump		Cer	ntrifugal type driven by b	elt
Engine Radiated Heat	kW	See	table no. 03.400.06VLEN	.03
Water Pump Capacity	litre/min.		158.3	
Heat Exchanger Raw water system				
Maximum Pressure	kPa	2,000	2,000	2,000
Flow (maximum)	litre/min.	138	156	197
Maximum Temperature	°C (°F)	37.8 (100)	37.8 (100)	37.8 (100)
Thermostat, Start to Open	°C		83	
Fully Opened	°C		95	
Coolant Capacity Approximately	litre		23	
Coolant Pressure Cap	kPa		95	
Maximum Raw Water Supply pipe				
Std Connection Heat Exchanger IN	inch		1 ½" BSP	
Maximum Raw Water Discharge pipe				
Std Connection Heat Exchanger OUT	inch		1 ½" BSP	
Maximum Engine H ₂ O Temperature	°C		103	
Pressure loss Engine Cooling Circuit	kPa		10	
Header tank capacity (Fresh water syste	em) litre		6.5	

Lubrication System		
Lubrication Method		Fully Forced pressure feed type
Oil Pump		Gear type driven by crankshaft
Oil Filter		Full Flow, Cartridge type
Oil pressure Range, normal	kPa	70 at idle 350 at maximum speed
Maximum Oil Temperature	°C	120 @ 2,940 rpm
Total Capacity	litre	12.8
Oil consumption at max. rating	%	0.1 (Of fuel consumption)

Exhaust System		IF07ATIH-N	IF07BTIH-N	IF07CTIH-N
Exhaust Gas Flow at max output	kg/h	1,375	1,460	1,485
Exhaust Gas Temperature at max rating/	power ^o C	550	600	620
Max. Allowable Back Pressure	kPa		7	
Minimum Exhaust Pipe Diameter	mm(inch)*		101.6 (4")	
Exhaust compensator with counter flange			Included	
*Based on Nominal System. Flow analysis must be done to assure adherence to system limitations!				

(Minimum exhaust pipe diameter is based on 6 metre (15 ft.) of pipe, one elbow, and a silencer. Pressure drop no greater than one half the max. allowable back pressure)

Heater System		
Wattage (Nominal)	W	1,500
Voltage AC	V	230

Miscellaneous		
Flywheel housing	SAE	3
Flywheel	SAE	11 ½
Number of teeth starter ring		125

Engine Performance Data				
All data is based on the engine operating with fuel system, lubricating oil pump, air cleaner, and alternator; not included are compressor, fan, optional				
equipment, and driven components. Data is based on operation a	at SAE	standard J1394 conditions of 300ft (91,4m) altitude, 29.61 in.(752mm) Hg dry		
barometer, and 77°F (25°C) intake air temperature, using No.2 diesel or a fuel corresponding to ASTM-D2.				
Altitude above which output should be Limited	т	91.4		
Correction Factor per 305m. above Altitude Limit		3 %		
Temperature above which output should be Limited	°C	25		