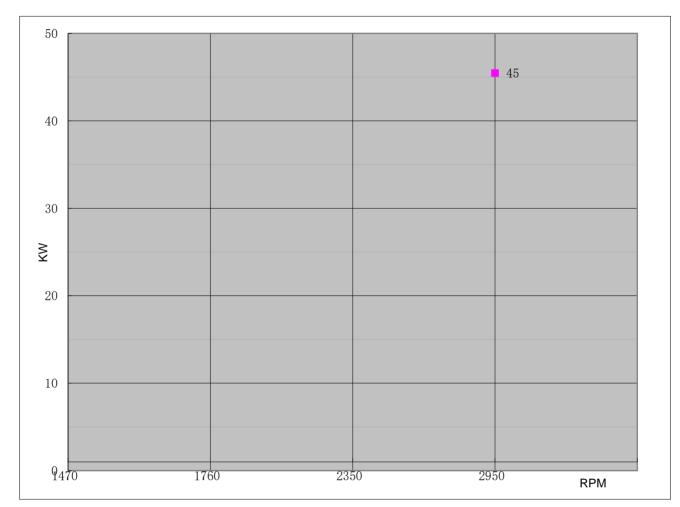


Performance Curve

ı												
	Engine Model			CH4-90-EB		Curve No.	C0490BF		Date		2021/8/13	
	Displacement	2.54	L	L Aspiration		Turbocharged		Power Standard			UL/FM	
	Bore	90	mm	Cylinder Qty	/ .	4, In-Line;		45	KW	@ 29!	50 r/min	
	Stroke	100	mm	Fuel System	1	Mechanical		61	НР	@ 29 !	50 r/min	



L	Torque						
	Speed	Torque					
ı	RPM	N-m	lb-ft.				
	1470						
ı	1760						
	2350						
L	2950	147	109				

	Output Power					
Speed Output Power						
RPM	KW	HP				
1470						
1760						
2350						
2950	45	61				

Fuel Consumption							
Speed	Speed Consumption						
RPM	g/KW-HR	lb/BHP-HR					
1470							
1760							
2350							
2950	254	0.418					

REV:

Α



Engine Data Sheet

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Engine Model	CH4-90-EB	Date	20:	21/8/13		
Drawing No.	CH4-90-EB.00	Document No.	DS0490BF			
	61 HP @ 2950 RPM	Performance Curve No.	_)490BF		
Rated Power	45 KW @ 2950 RPM	Version	A			
	-					
	G	ENERAL ENGINE DATA				
Type				ater cooled; 4 Cylinder		
Aspiration			Turbo	ocharged		
Bore and Stroke			mm×mm	90x100		
Cylinder Liner Type			✓ Wet	Dry		
Displacement			L	2.54		
Compression Ratio				17.5:1		
Firing Order			1-	3-4-2		
Combustion System				t Injection		
Rotation Viewed from f	lywheel			r Clockwise		
Valves Per Cylinder			Intake :	1 Exhuast :1		
Valves lashes at cold		Intake	mm	0.3		
Valves lasifies at cold		Exhaust	mm	0.3		
Charge Air Cooling Typ	е		Rav	v Water		
Dry Weight Approx.			kg	400		
Dimension Approx. (La	*W*H)		mm	1205*790*1025		
Flywheel/ Flywheel House Dimension			10"/ SAE 4			
		EXHAUST SYSTEM				
Exhaust Gas Temp.			°C	550 @ 2950rpm		
Exhaust Gas Flow			m³/h	1165 @ 2950rpm		
Max. Allowable Back Pr	essure		kpa	5.5		
Minimum Exhaust Pipe	Diameter		DN	80		
Minimum exhaust pipe dia allowable back pressure	ameter is based on 6 meter o	f pipe, one elbow, and a silencer.	Pressure drop no great	er than one half the max.		
		AIR INTAKE SYSTEM				
Air Cleaner Type			Dr	у Туре		
Air Flow			m³/h	500 @2950rpm		
Max. Allowable Air Inlet	t Restriction		kpa	4.5 @2950rpm		
	L	UBRICATION SYSTEM				
Oil Capacity			L	7		
Engine Normal Operati	- :		℃	80-125		
Normal Operating Oil F	Pressure Range		bars 3.5~5.0			
Oil Pressure at Idle			bar	>1		
		COOLING SYSTEM				
Coolant Capacity - Eng	ine + Heat Exchanger	_	L	11		
Thermostat Range		Start Open	°C	75		
mermostat Nange		Full Open	°C	85		
Coolant Pressure Cap			bar	0.9		
Raw Water Working Pre	essure Range at Heat Exch	nanger	bar	5		
Engine Normal Operati	ng Coolant Temp.		°C	70-95		
Engine Coolant Flow at	Full Load		m³/h	9.5		

HESTER	Engine Data Sheet				
Minimum Raw Water Flow @ Engine Speed		2	950		
Raw Wa	ater Temperatures to 16 °C (m³/h)	4.5			
Raw Wa	ater Temperatures to 38 °C (m³/h)	5.7			
Raw Water Pipe Size	Raw Water Inlet	G3/4"			
Kaw Water ripe Size	Raw Water Outlet	G1"			
	HEATER SYSTEM				
Wattage		W	2000		
Voltage AC		V	220		
	ELECTRICAL SYSTEM-DC				
System Voltage(Nominal)		V	24		
Starter motor		Kw	4.5		
Recommended Battery Capacity		AH	150		
Cold Cranking Amperes @ -18°C (0°F)	Cold Cranking Amperes @ -18°C (0°F)				
Charging Alternator Output	Amps	25			
	FUEL SYSTEM				
Injection Pump					
Injection Advance Angle		0	14±1		
Minimum Supply line Size		mm	8		
Minimum Return line Size		mm	8		
Fuel Management Control		Mechanical			
Idle Speed		rpm	840±20		
Governed Speed Rate		%	<10		
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 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 0# diesel fuel follow the standard GB 252-2011.					
Altitude above which output should be Limited m			91 (300)		
Correction Factor per 305m.(1,000ft.) above Altitude Limit 3%					
Temperature above which output should be	Limited	°C (°F)	25 (77)		
Correction Factor per 5.6°C (10°F)	Correction Factor per 5.6°C (10°F) above Temperature Limit				
<u> </u>	-				

Remark:

1.All daa certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;