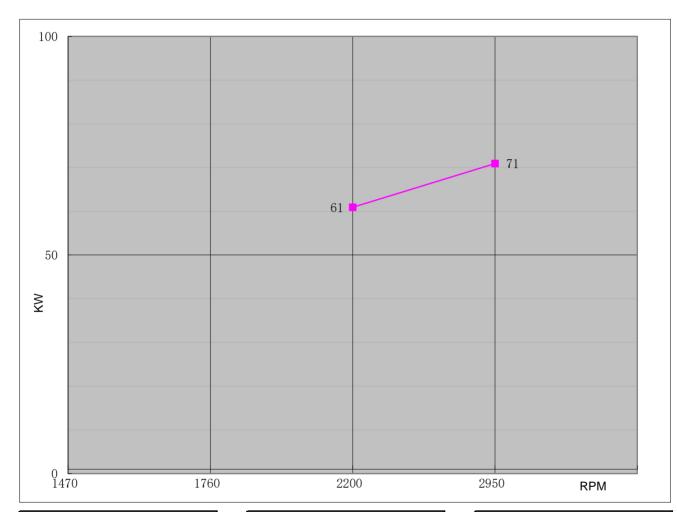


DIESEL ENGINE

Engine Model		CH4-102-EB			Curve No. C04		102BF	D	ate		2021/1/16
Displacement	3.86	L	Aspiration		Turbocharged		Power Standard		UL/FM		
Bore	102	mm	Cylinder Qty.		4, In-Line;		71	KW	@	2950	r/min
Stroke	118	mm	Fuel System	1	Mechanical		95	НР	@	2950	r/min



Torque						
Speed	Torq	ue				
RPM	N-m	lb-ft.				
1470						
1760						
2200	264	195				
2950	230	169				

Output Power							
Speed Output Power							
RPM	KW	HP					
1470							
1760							
2200	61	82					
2950	71	95					

Fuel Consumption							
Speed Consumption							
RPM	g/KW-HR	lb/BHP-HR					
1470							
1760							
2200	240	0.395					
2950	250	0.411					

REV:

Α



Engine Data Sheet

Engine Model	CH4-102-EB	Date	2021	1/1/16	
Drawing No.	CH4-102-EB.00	Document No.	DS04102BF		
2	95 HP @ 2950 RPM	Performance Curve No.			
71 KW @ 2950 R		Version	А		
T	G	ENERAL ENGINE DATA	A.C. ala la l'access	and the state of t	
Type			4 Cycle; In-line; wat		
Aspiration				charged	
Bore and Stroke			mm×mm	102×118	
Cylinder Liner Type			Wet	✓ Dry	
Displacement			L	3.856	
Compression Ratio				7:01	
Firing Order				-4-2	
Combustion System				Injection	
Rotation Viewed from f	Tywheel			Clockwise	
Valves Per Cylinder			Intake :1	Exhuast :1	
Valves lashes at cold		Intake	mm	0.4	
ימויכט ומטווכט מנ נטוט		Exhaust	mm	0.4	
Charge Air Cooling Typ	oe e		Raw	Water	
Dry Weight Approx.			kg	540	
Dimension Approx. (L	*W*H)		mm	1205*890*1275	
Flywheel/ Flywheel Hou	use Dimension		11.5"/	/ SAE 3	
		EXHAUST SYSTEM			
Exhaust Gas Temp.			°C	540 @ 2950rpn	
Exhaust Gas Flow			m³/h	675 @ 2950rpm	
Max. Allowable Back Pr	essure		kpa	10	
Minimum Exhaust Pipe	Diameter		DN	80	
Minimum exhaust pipe dia allowable back pressure		f pipe, one elbow, and a silencer. I	Pressure drop no greate	r than one half the m	
A' - Classas T		AIR INTAKE SYSTEM	D.	T	
Air Cleaner Type		AIR INTAKE SYSTEM	-	Type	
Air Flow		AIR INTAKE SYSTEM	m³/h	550 @2950rpm	
	t Restriction		-		
Air Flow Max. Allowable Air Inle	t Restriction	AIR INTAKE SYSTEM UBRICATION SYSTEM	m³/h kpa	550 @2950rpm 6 @2950rpm	
Air Flow Max. Allowable Air Inle Oil Capacity	t Restriction		m³/h kpa	550 @2950rpm 6 @2950rpm 12	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati	t Restriction Li ng Sump Oil Temp.		m³/h kpa L °C	550 @2950rpm 6 @2950rpm 12 80-120	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operating Oil F	t Restriction Li ng Sump Oil Temp.		m³/h kpa L °C bars	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati	t Restriction Li ng Sump Oil Temp.	UBRICATION SYSTEM	m³/h kpa L °C	550 @2950rpm 6 @2950rpm 12 80-120	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati Normal Operating Oil F Oil Pressure at Idle	t Restriction Li ng Sump Oil Temp. Pressure Range		m³/h kpa L °C bars bar	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0 >1	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operating Normal Operating Oil F	t Restriction Li ng Sump Oil Temp. Pressure Range	UBRICATION SYSTEM COOLING SYSTEM	m³/h kpa L °C bars bar	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0 >1	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati Normal Operating Oil F Oil Pressure at Idle Coolant Capacity - Eng	t Restriction Li ng Sump Oil Temp. Pressure Range	COOLING SYSTEM Start Open	m³/h kpa L °C bars bar	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0 >1	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati Normal Operating Oil F Oil Pressure at Idle Coolant Capacity - Eng Thermostat Range	t Restriction Li ng Sump Oil Temp. Pressure Range	UBRICATION SYSTEM COOLING SYSTEM	m³/h kpa L °C bars bar	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0 >1	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati Normal Operating Oil F Oil Pressure at Idle Coolant Capacity - Eng Thermostat Range Coolant Pressure Cap	t Restriction Ling Sump Oil Temp. Pressure Range gine + Heat Exchanger	COOLING SYSTEM Start Open Full Open	m³/h kpa L °C bars bar	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0 >1	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati Normal Operating Oil F Oil Pressure at Idle Coolant Capacity - Eng Thermostat Range Coolant Pressure Cap	t Restriction Li ng Sump Oil Temp. Pressure Range	COOLING SYSTEM Start Open Full Open	m³/h kpa L °C bars bar L °C °C	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0 >1 18 76 86	
Air Flow Max. Allowable Air Inle Oil Capacity Engine Normal Operati Normal Operating Oil F Oil Pressure at Idle Coolant Capacity - Eng Thermostat Range Coolant Pressure Cap	t Restriction Ling Sump Oil Temp. Pressure Range gine + Heat Exchanger essure Range at Heat Exch	COOLING SYSTEM Start Open Full Open	m³/h kpa L °C bars bar L °C °C	550 @2950rpm 6 @2950rpm 12 80-120 2.5~6.0 >1 18 76 86 0.9	

7,71	ngine Data Sheet			
Minimum Raw Water Flow @ Engine Speed (rp	2200	2950		
Raw Water	4.5	4.5		
Raw Water	5.3	5.3		
Raw Water Pipe Size	G3/4"			
Naw Water Fipe 6/26	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)	CCA	900		
Charging Alternator Output	Amps	35		
	FUEL SYSTEM			
Injection Pump				
Injection Advance Angle		0	11	
Minimum Supply line Size		mm	10	
Minimum Return line Size		mm	10	
Fuel Management Control			Mechanical	
Idle Speed		rpm	800	
Governed Speed Rate		%	<10	
	Engine Performance Data			
All data is based on the engine operating with are compressor, fan, optional equipment, and conditions of 300ft (91,4m) altitude, 29.61 in.(7 0# diesel fuel follow the standard GB 252-2011	driven components.;Data is based 52mm) Hg dry barometer, and 7	d on operation at SA	AE standard J1394	
Altitude above which output should be Limited		m (ft.)	91 (300)	
Correction Factor per 305m.(1,000ft.)		, ,	3%	
Temperature above which output should be Lir		°C (°F)	25 (77)	
Correction Factor per 5.6°C (10°F) abo	1%			

Remark:

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