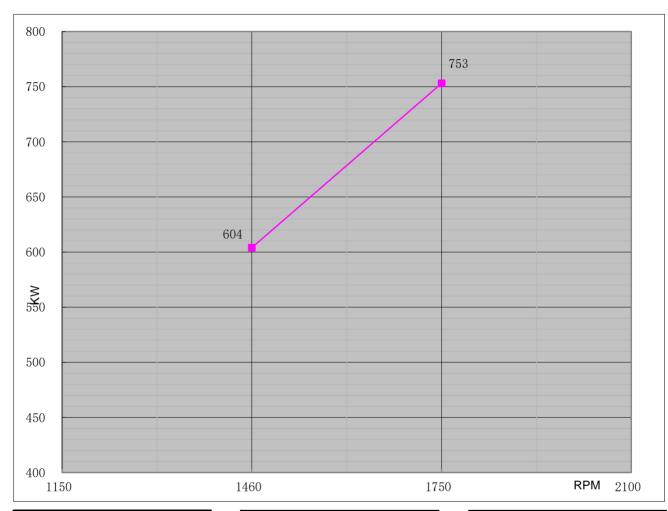


Performance Curve

I	Engine Model		CH12-128-EC			Curve No. C12		2128CF	Da	Date		2021/7/17
	Displacement	ent 21.93 L		Aspiration		Turbocharged+Water cooled		Power Standard			UL/FM	
	Bore	128	mm	Cylinder Qty	/ .	V-Type, 12		753	KW	@	1750	r/min
	Stroke	142	mm	Fuel System	1	Mechanical		1010	HP	@	1750	r/min



	Torque	
Speed	Torqi	ue
RPM	N-m	lb-ft.
1150		
1460	3948	2912
1750	4108	3029

	Output Power					
Speed	Output	Power				
RPM	KW	HP				
1150						
1460	604	810				
1750	753	1010				

Fuel Consumption					
	•				
Speed	Consur	nption			
RPM	g/KW-HR	lb/BHP-HR			
1150					
1460	225	0.370			
1750	210	0.345			

REV:

Α



Engine Data Sheet

	01110 100 50	_	I			
Engine Model	CH12-128-EC	Date	2021/7/17			
Drawing No.	CH12-128-EC .00	Document No.	DS12128CF			
Rated Power	1010 HP @ 1750 RPM	Performance Curve No.	C12128CF A			
	753 KW @1750 RPM	3 KW @1750 RPM Version				
	GE	NERAL ENGINE DATA				
Type			4 Cycle; V-type; wa	ater cooled; 12 Cylinder		
Aspiration			Turbocharge	d +Water Cooled		
Bore and Stroke			mm×mm	128x142		
Cylinder Liner Type			✓ Wet	Dry		
Displacement			L	L 21.927		
Compression Ratio			15:01			
Firing Order			1-12-5-8-3-2	10-6-7-2-11-4-9		
Combustion System			Direct	t Injection		
Rotation Viewed from fly	,wheel			r Clockwise		
Valves Per Cylinder	,			1 Exhuast :1		
varveer or cymnaer		Intake	mm	0.25		
Valves lashes at cold		Exhaust	mm	0.35		
Charge Air Cooling Type		LAHdust				
Dry Weight Approx.	•		Raw Water kg 2150			
	M*TI		kg mm	2290*1440*1760		
	Dimension Approx. (L*W*H) Flywheel/ Flywheel House Dimension			/ SAE 1		
riywileel/ riywileel rious	DITIETISION	14 / JAL 1				
Exhaust Gas Temp.		EXHAUST SYSTEM	°C	575 @ 1750rpm		
Exhaust Gas Flow			m³/h	10080 @ 1750rpm		
Max. Allowable Back Pre				9 @ 1750rpm		
Minimum Exhaust Pipe D			kpa	2x150		
<u> </u>			DN			
Minimum exhaust pipe diameter is based on 6 meter of pipe, one elbow, and a silencer. Pressure drop no greater than one half the max. allowable back pressure						
AIR INTAKE SYSTEM						
Air Cleaner Type	Air Cleaner Type			у Туре		
Air Flow			m³/h	m³/h 3564 @1750rpm		
Max. Allowable Air Inlet	Max. Allowable Air Inlet Restriction			5 @1750rpm		
LUBRICATION SYSTEM						
Oil Capacity			L	40		
Engine Normal Operatin	g Sump Oil Temp.		°C	80-120		
Normal Operating Oil Pressure Range			bars	2.5~6		
Oil Pressure at Idle			bar	>1		
		COOLING SYSTEM				
Coolant Capacity - Engir	ne + Heat Exchanger		L	70		
The amount of December 1		Start Open	°C	71		
Thermostat Range		Full Open	°C	85		
Coolant Pressure Cap		•	bar	0.9		
Raw Water Working Pres	aw Water Working Pressure Range at Heat Exchanger			5		
Engine Normal Operatin			°C	71-98		
Engine Coolant Flow at F	Full Load		m³/h	40		

#HESTER En	gine Data Sheet			
Minimum Raw Water Flow @ Engine Speed (rpm	1460	1750		
	Femperatures to 16 °C (m³/h)	17	17	
	Temperatures to 38 °C (m³/h)	21	22.5	
	Raw Water Inlet	G	62"	
Raw Water Pipe Size	Raw Water Outlet	G2	1/2"	
	HEATER SYSTEM			
Wattage		W	4500	
Voltage AC		V	220	
E	LECTRICAL SYSTEM-DC			
System Voltage(Nominal)		V	24	
Starter motor		Kw	7	
Recommended Battery Capacity		АН	200	
Cold Cranking Amperes @ -18℃ (0°F)		CCA	1000	
Charging Alternator Output	Amps	45		
	FUEL SYSTEM			
Injection Pump				
Injection Advance Angle		0	21±1	
Minimum Supply line Size		mm	12	
Minimum Return line Size		mm	12	
Fuel Management Control		Mechanical		
Idle Speed		rpm	800	
Governed Speed Rate		%	<10	
En	gine Performance Data			
All data is based on the engine operating with fur are compressor, fan, optional equipment, and dri conditions of 300ft (91,4m) altitude, 29.61 in.(752 0# diesel fuel follow the standard GB 252-2011.	iven components.;Data is based	d on operation at SAI	E standard J1394	
Altitude above which output should be Limited		m (ft.)	91 (300)	
Correction Factor per 305m.(1,000ft.) a	bove Altitude Limit		3%	
Temperature above which output should be Limit	ted	°C (°F)	25 (77)	
Correction Factor per 5.6°C (10°F) abov	+		1%	

Remark:

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