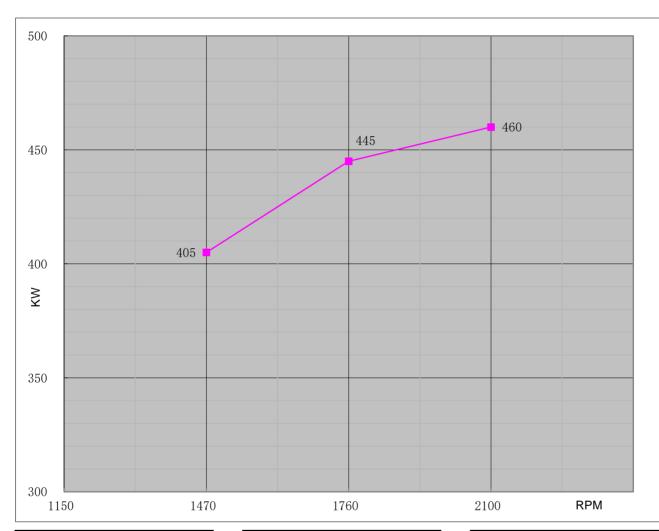


DIESEL ENGINE

Engine Model			CH10-128-E		Curve No.	C10128F		Date			2021/3/19
Displacement	18.27	L	Aspiration	-	Turbocharged+Water cod	oled	Power	Standa	rd	<u>-</u>	UL/FM
Bore	128	mm	Cylinder Qty	/ .	10,V-Type		460	KW	@	2100	r/min
Stroke	142	mm	Fuel System	า	Mechanical		617	HP	@	2100	r/min



Torque						
Speed	Torg	ue				
RPM	N-m	lb-ft.				
1150						
1470	2628	1938				
1760	2417	1783				
2100	2092	1543				

	Output Power Speed Output Power						
	RPM	KW	HP				
	1150						
	1470	405	543				
	1760	445	597				
	2100	460	617				

Fuel Consumption						
Speed	Consur	nption				
RPM	g/KW-HR	lb/BHP-HR				
1150						
1470	199	0.327				
1760	205	0.337				
2100	224	0.368				



Engine Data Sheet

-711						
Engine Model	CH10-128-E	Date	202	21/3/19		
Drawing No.	CH10-128-E.00	Document No.	DS10128F			
	617 HP @2100 RPM	Performance Curve No.	C10128F			
Rated Power	460 KW @2100 RPM	Version	А			
	-		1			
	GI	ENERAL ENGINE DATA				
Type			4 Cycle; V-type; water cooled; 10 Cylinder			
Aspiration			Turbocharged +Water Cooled			
Bore and Stroke			mm×mm 128x142			
Cylinder Liner Type			✓ Wet	Dry		
Displacement			L	18.273		
Compression Ratio			14.6:1			
Firing Order				1-6-5-10-2-7-8-3-4-9		
Combustion System				t Injection		
Rotation Viewed from fl	ywheel			r Clockwise		
Valves Per Cylinder			Intake :	1 Exhuast :1		
Valves lashes at cold		Intake	mm	0.25		
		Exhaust	mm	0.35		
Charge Air Cooling Type	e		Rav	v Water		
Dry Weight Approx.			kg	1635		
Dimension Approx. (L*	•		mm	1710*1355*1830		
Flywheel/ Flywheel Hou	se Dimension		14"/ SAE 1			
		EXHAUST SYSTEM				
Exhaust Gas Temp.			℃	539 @ 2100rpm		
Exhaust Gas Flow			m³/h	6084 @ 2100rpm		
Max. Allowable Back Pressure			kpa	10 @2100rpm 10 @1760rpm 9 @1470rpm		
Minimum Exhaust Pipe Diameter			DN	2x125		
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	Air Flow		m³/h	3624 @2100rpm		
Max. Allowable Air Inlet Restriction			kpa	6 @2100rpm 6 @1760rpm 4.5 @1470rpm		
LUBRICATION SYSTEM						
Oil Capacity			L	35		
Engine Normal Operatir	· · ·		°C	80-120		
Normal Operating Oil Pressure Range			bars	3~4		
Oil Pressure at Idle			bar	>1		
COOLING SYSTEM						
Coolant Capacity - Engine + Heat Exchanger			L	52		
Thermostat Range		Start Open	°C	71		
mennostat Nange		Full Open	°C	85		
Coolant Pressure Cap			bar	0.9		

H ESTER En	gine Data Sheet					
Raw Water Working Pressure Range at Heat Exch	Raw Water Working Pressure Range at Heat Exchanger					
Engine Normal Operating Coolant Temp.	$^{\circ}\!\mathbb{C}$	71-98				
Engine Coolant Flow at Full Load		m³/h	42			
Minimum Raw Water Flow @ Engine Speed (rpm))	1470 1	.760 2100			
Raw Water To	emperatures to 16 °C (m³/h)	15	16 17			
Raw Water To	emperatures to 38 °C (m³/h)	18	19 20			
Raw Water Pipe Size	Raw Water Inlet	G1 1/2"				
Naw Water Fipe Size	Raw Water Outlet	G2"				
	HEATER SYSTEM					
Wattage		W	4500			
Voltage AC		V	220			
El	LECTRICAL SYSTEM-DC					
System Voltage(Nominal)		V	24			
Starter motor		Kw	7			
Recommended Battery Capacity		АН	200			
Cold Cranking Amperes @ -18°C (0°F)	CCA	1000				
Charging Alternator Output	Amps	45				
	FUEL SYSTEM					
Injection Pump						
Injection Advance Angle	0	16				
Minimum Supply line Size	mm	12				
Minimum Return line Size	mm 12					
Fuel Management Control		Mechanical				
Idle Speed	Idle Speed					
Governed Speed Rate		%	<10			
En	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 (ft.)	91 (300)			
Correction Factor per 305m.(1,000ft.) a	bove Altitude Limit	` '	3%			
Temperature above which output should be Limit		°C (°F)	25 (77)			
Correction Factor per 5.6°C (10°F) above		1%				
30.100.101.1 dotto. por 0.0 3 (10 1) db01	z . zporacaro zc		=:-			

Remark:

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