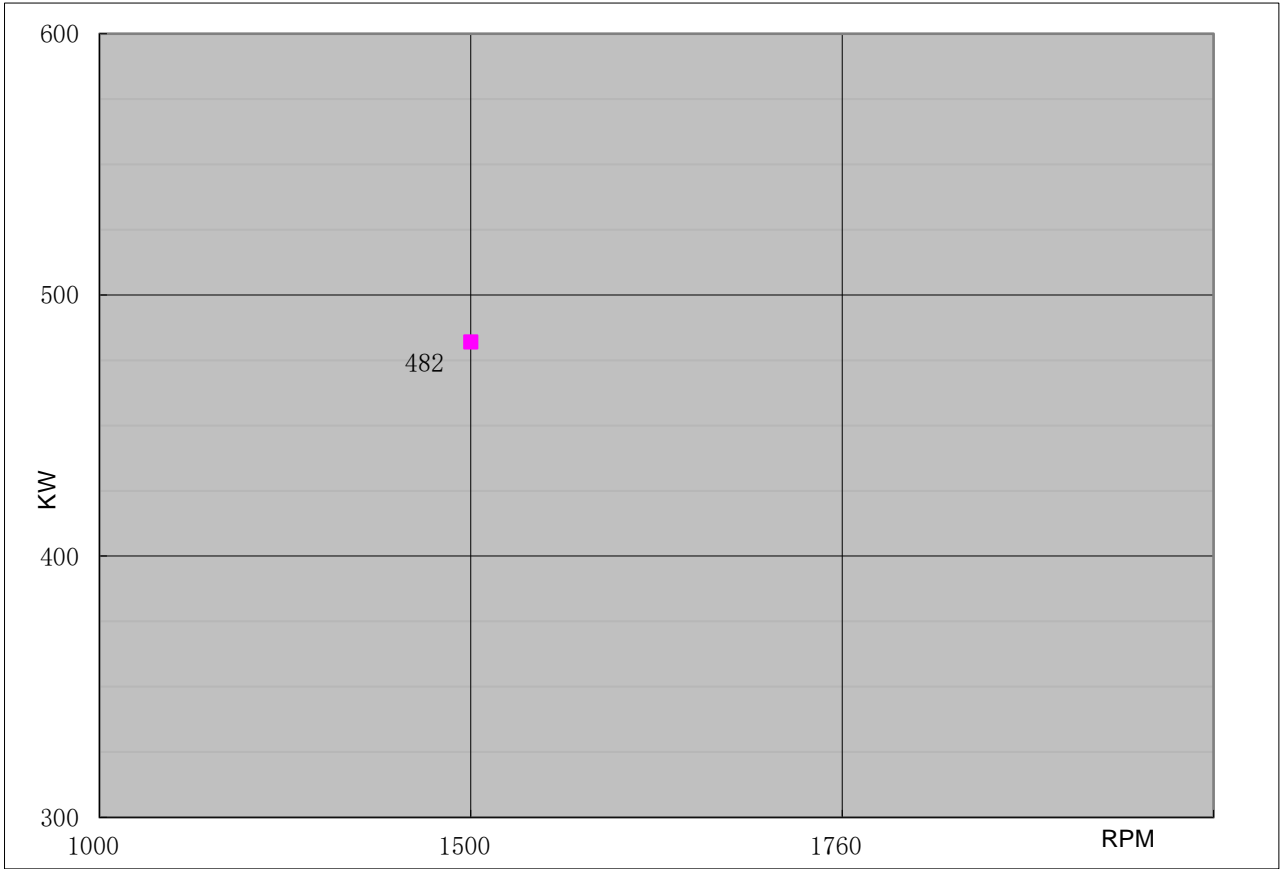




Performance Curve

Engine Model		CH6-170-EHD		Curve No.		C06170HD		Date	2024/6/7
Displacement	26.56	L	Aspiration	Turbocharged+Water cooled		Power Standard		UL/FM	
Bore	170	mm	Cylinder Qty.	6, In-Line;		482	KW @ 1500	r/min	
Stroke	195	mm	Fuel System	Mechanical		646	HP @ 1500	r/min	



Torque		
Speed	Torque	
RPM	N-m	lb-ft.
1000		
1500	3068	2262
1760		

Output Power		
Speed	Output Power	
RPM	KW	HP
1000		
1500	482	646
1760		

Fuel Consumption		
Speed	Consumption	
RPM	g/KW-HR	lb/BHP-HR
1000		
1500	195	0.321
1760		

REV: A



## Engine Data Sheet

Engine Model	CH6-170-EHD	Date	2024/6/7	
Drawing No.	CH6-170-EHD.00	Document No.	DS06170HD	
Rated Power	646 HP @ 1500 RPM	Performance Curve No.	C06170HD	
	482 KW @1500 RPM	Version	A	
GENERAL ENGINE DATA				
Type		4 Cycle; In-line; water cooled; 6 Cylinder		
Aspiration		Turbocharged+Water cooled		
Bore and Stroke		mm×mm	170x195	
Cylinder Liner Type		<input checked="" type="checkbox"/> Wet	<input type="checkbox"/> Dry	
Displacement		L	26.56	
Compression Ratio		14:01		
Firing Order		1-5-3-6-2-4		
Combustion System		Direct Injection		
Rotation Viewed from flywheel		Counter Clockwise		
Valves Per Cylinder		Intake :2 Exhaust :2		
Valves lashes at cold	Intake	mm	0.4	
	Exhaust	mm	0.5	
Charge Air Cooling Type		Raw Water		
Dry Weight Approx.		kg	3290	
Dimension Approx. (L*W*H)		mm	2315*1440*2030	
Flywheel/ Flywheel House Dimension		14"/ SAE 0		
EXHAUST SYSTEM				
Exhaust Gas Temp.		°C	450	
Exhaust Gas Flow		m³/h	6143	
Max. Allowable Back Pressure		kpa	4.4	
Minimum Exhaust Pipe Diameter		DN	200	
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		Dry Type		
Air Flow		m³/h	2645	
Max. Allowable Air Inlet Restriction		kpa	0.9	
LUBRICATION SYSTEM				
Oil Capacity		L	86	
Engine Normal Operating Sump Oil Temp.		°C	80-105	
Normal Operating Oil Pressure Range		bars	3~4.2	
Oil Pressure at Idle		bar	>1	
COOLING SYSTEM				
Coolant Capacity - Engine + Heat Exchanger		L	100	
Thermostat Range	Start Open	°C	72	
	Full Open	°C	82	
Coolant Pressure Cap		bar	0.9	
Raw Water Working Pressure Range at Heat Exchanger		bar	5	
Engine Normal Operating Coolant Temp.		°C	70-95	
Engine Coolant Flow at Full Load		m³/h	30	
Minimum Raw Water Flow @ Engine Speed (rpm)		1500		
Raw Water Temperatures to 16 °C (m³/h)		18		
Raw Water Temperatures to 38 °C (m³/h)		20.5		



## Engine Data Sheet

	Raw Water Pipe Size	Raw Water Inlet	DN40
		Raw Water Outlet	DN50
HEATER SYSTEM			
	Wattage	W	4000
	Voltage AC	V	230
ELECTRICAL SYSTEM-DC			
	System Voltage(Nominal)	V	24
	Starter motor	Kw	6.6
	Recommended Battery Capacity	AH	200
	Cold Cranking Amperes @ -18°C (0°F)	CCA	1000
	Charging Alternator Output	Amps	28
FUEL SYSTEM			
	Injection Pump		
	Injection Advance Angle	°	30±0.5
	Minimum Supply line Size	mm	15
	Minimum Return line Size	mm	15
	Fuel Management Control	Mechanical	
	Idle Speed	rpm	725±25
	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 19147-2016.		
	Altitude above which output should be Limited	m (ft.)	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) above Temperature Limit	1%	
Remark: 1.All data certified within 5%; 2.TBD - To Be Determined; 3.N/A - Not Applicable;			