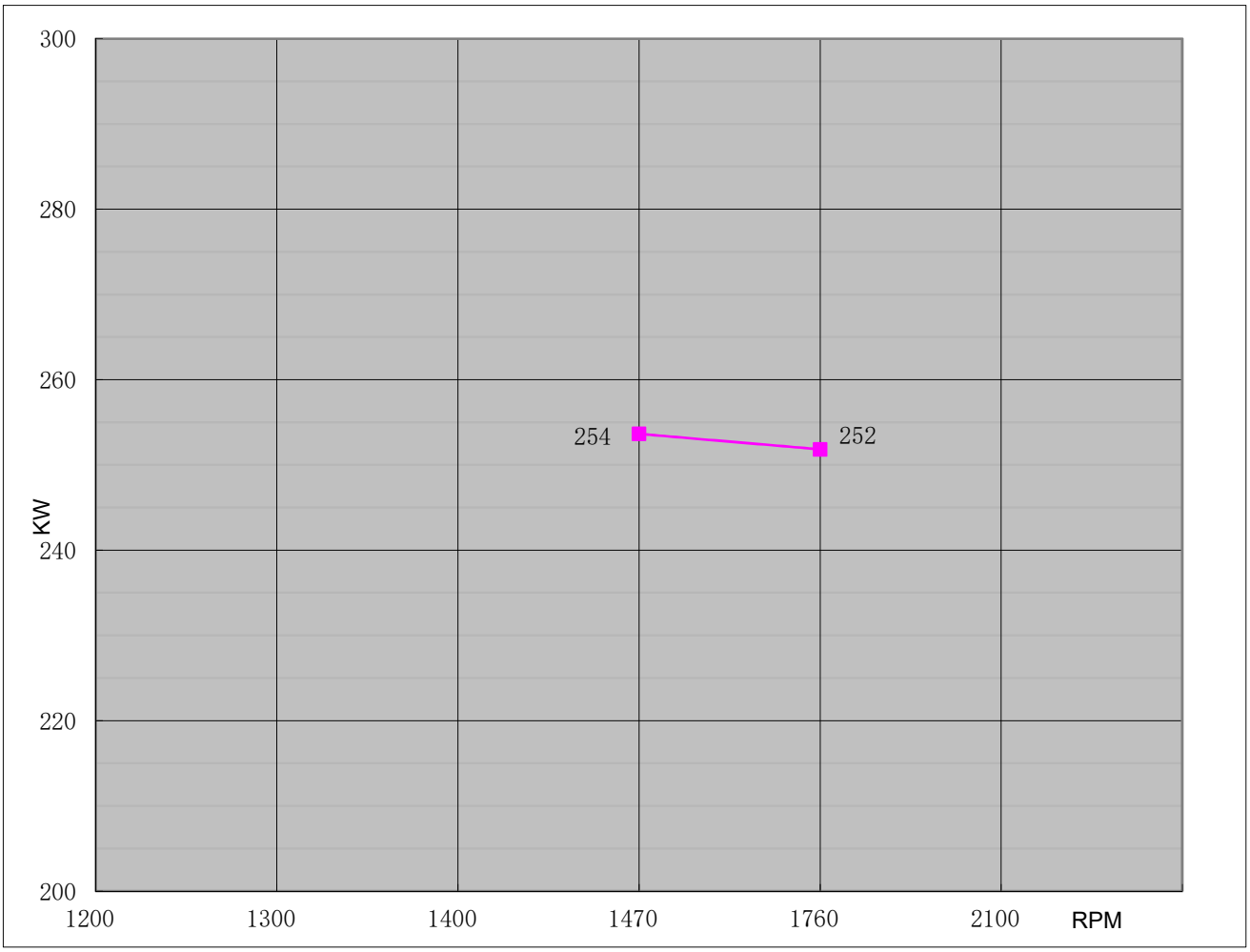
DIESEL ENGINE

Engine Model	CH6-135-EB	Curve No.	C06135BF	Date	2021/2/6

Displacement	12.88 L	Aspiration	Turbocharged+Water cooled	Power Standard	UL/FM
Bore	135 mm	Cylinder Qty.	6	252 KW @ 1760 r/min	
Stroke	150 mm	Fuel System	In-line; Mechanical	338 HP @ 1760 r/min	



Torque

Speed RPM	Torque N-m	lb-ft.
1200		
1300		
1400		
1470	1648	1215
1760	1366	1008
2100		

Output Power

Speed RPM	Output Power KW	HP
1200		
1300		
1400		
1470	254	340
1760	252	338
2100		

Fuel Consumption

Speed RPM	Consumption g/KW-HR	lb/BHP-HR
1200		
1300		
1400		
1470	205	0.337
1760	210	0.345
2100		

REV: A

Engine Data Sheet

Engine Model	**CH6-135-EB**	**Date**	**2021/2/6**
Drawing No.	**CH6-135-EB**	**Document No.**	**DS06135BF**
Rated Power	**338 HP @ 1760 RPM**	**Performance Curve No.**	**C06135BF**
	252 KW @ 1760 RPM	**Version**	**A**

GENERAL ENGINE DATA				
Type			4 Cycle; In-line; water cooled; 6 Cylinder	
Aspiration			Turbocharged +Water Cooled	
Bore and Stroke			mm×mm	135x150
Cylinder Liner Type			☑ Wet	☐ Dry
Displacement			L	12.88
Compression Ratio			15.75:1	
Firing Order			1-5-3-6-2-4	
Combustion System			Direct Injection	
Rotation Viewed from flywheel			Counter Clockwise	
Valves Per Cylinder			Intake:1 Exhuast :1	
Valves lashes at cold		Intake	mm	0.325
		Exhaust	mm	0.375
Charge Air Cooling Type			Raw Water	
Dry Weight Approx.			kg	1480
Dimension Approx. (L*W*H)			mm	1835*1085*1529
Flywheel/ Flywheel House Dimension			14"/ SAE 1	
EXHAUST SYSTEM				
Exhaust Gas Temp.			℃	600 @1760rpm
Exhaust Gas Flow			m³/h	3618 @1760rpm
Max. Allowable Back Pressure			kpa	8
Minimum Exhaust Pipe Diameter			DN	125
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	1536 @1760rpm
Max. Allowable Air Inlet Restriction			kpa	6
LUBRICATION SYSTEM				
Oil Capacity			L	32
Engine Normal Operating Sump Oil Temp.			℃	80-115
Normal Operating Oil Pressure Range			bars	4~6.0
Oil Pressure at Idle			bar	>0.15
COOLING SYSTEM				
Coolant Capacity - Engine + Heat Exchanger			L	48
Thermostat Range		Start Open	℃	77
		Full Open	℃	90
Coolant Pressure Cap			bar	0.9
Raw Water Working Pressure Range at Heat Exchanger			bar	5
Engine Normal Operating Coolant Temp.			℃	77-95
Engine Coolant Flow at Full Load			m^3/h	27
Minimum Raw Water Flow @ Engine Speed (rpm)			1470	1760
	Raw Water Temperatures to 16 ℃ (m^3/h)		8	9
	Raw Water Temperatures to 38 ℃ (m^3/h)		10.5	12
Raw Water Pipe Size		Raw Water Inlet	G1 1/2"	
		Raw Water Outlet	G2"	

Engine Data Sheet

HEATER SYSTEM			
	Wattage	W	4500
	Voltage AC	V	220
ELECTRICAL SYSTEM-DC			
	System Voltage(Nominal)	V	24
	Starter motor	Kw	8.5
	Recommended Battery Capacity	AH	180
	Cold Cranking Amperes @ -18℃ (0ºF)	CCA	950
	Charging Alternator Output	Amps	55
FUEL SYSTEM			
	Injection Pump		
	Injection Advance Angle	°	14.5
	Minimum Supply line Size	mm	12
	Minimum Return line Size	mm	12
	Fuel Management Control	Mechanical	
	Idle Speed	rpm	750
	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 77ºF (25ºC) 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.) above Altitude Limit	3%	
	Temperature above which output should be Limited	ºC (ºF)	25 (77)
	Correction Factor per 5.6ºC (10ºF) above Temperature Limit	1%	

Remark:

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